SMARTVISTA EXCHANGE PROTOCOL (SVXP)

API developer reference

August 24, 2018

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1. PREFACE
   1. Revision history

| Revision | Date | Author | Details |
| --- | --- | --- | --- |
| 0.1 | 09.08.2012 | Khougaev A. | Accounts and customers file structure. Initial version |
| 0.2 | 09.08.2012 | Khougaev A. | Clearing file structure. Initial version |
| 0.3 | 10.08.2012 | Filimonov A. | Clearing file structure. Added operation and payment order attributes |
| 0.4 | 20.09.2012 | Filimonov A. | Clearing file structure. Added payment order parameters |
| 0.5 | 06.11.2012 | Filimonov A. | Accounts and customers file structure. Added accounts and customers SVXP specification document |
| 0.6 | 12.03.2013 | Filiminov A. | Currency rates file structure. First version of document |
| 0.7 | 13.03.2013 | Filiminov A. | Currency rates file structure. Added currency rate exchange specification |
| 0.8 | 14.03.2013 | Filimonov A. | Card security data transmission file structure. Initial version |
| 0.9 | 14.03.2013 | Filimonov A. | Card status file structure. First version of document |
| 1.0 | 12.04.2013 | Filimonov A. | Credit migration file structure. The document was created |
| 1.1 | 03.06.2013 | Kopachev D. | Currency rates file structure. The Scale element type corrected. The rate type added |
| 1.2 | 07.06.2013 | Necheukhin I. | Clearing file structure. Aggregator and service provider participants were added, oper\_reason, oper\_request\_amount and status tags were added |
| 1.3 | 10.06.2013 | Necheukhin I. | Clearing file structure. Extended clearing <in> format with is\_reversal mandatory tag |
| 1.4 | 14.06.2013 | Necheukhin I. | Clearing file structure. Operation tags has been added |
| 1.5 | 18.06.2013 | Necheukhin I. | Fees file structure. First version of document |
| 1.6 | 19.06.2013 | Necheukhin I. | Clearing file structure. Added tag payment\_amount |
| 1.7 | 19.06.2013 | Necheukhin I. | Fees file structure. Fee import specification has been simplified |
| 1.8 | 21.06.2013 | Necheukhin I. | Card security data transmission file structure. Corrected block card\_status |
| 1.9 | 21.06.2013 | Necheukhin I. | Card status file structure. Corrected block card\_status |
| 2.0 | 28.06.2013 | Necheukhin I. | Clearing file structure. Tags oper\_surcharge\_amount and oper\_cashback\_amount were added in block operation |
| 2.1 | 02.07.2013 | Necheukhin I. | Fees file structure. Adding modifiers in fee\_record block |
| 2.2 | 03.07.2013 | Necheukhin I. | Fees file structure. Block fee has been corrected and and block tier has been added |
| 2.3 | 04.07.2013 | Necheukhin I. | Fees file structure. Blocks fee and fee\_record have been modified |
| 2.4 | 06.08.2013 | Necheukhin I. | Clearing file structure. Block operation has been corrected |
| 2.5 | 14.08.2013 | Necheukhin I. | Clearing file structure. Tag purpose\_number has been added to block payment\_order |
| 2.6 | 14.08.2013 | Necheukhin I. | Fees file structure. Block fee\_record has been modified (added purpose\_id processing) |
| 2.7 | 29.08.2013 | Necheukhin I. | Fees file structure. Element merchant\_number has been renamed into customer\_number |
| 2.8 | 26.09.2013 | Filimonov A. | Clearing file structure. Added new dictionary values |
| 2.9 | 02.10.2013 | Necheukhin I. | Clearing file structure. Tag participant\_type has been added to block payment\_order |
| 3.0 | 22.10.2013 | Mashonkin V. | Notifications file structure. Initial version |
| 3.1 | 01.11.2013 | Mashonkin V. | Account credit statement interface. Initial version |
| 3.2 | 09.01.2014 | Filimonov A. | Credit migration file structure. The description of payments was added |
| 3.3 | 10.01.2014 | Filimonov A. | Credit migration file structure. Block dept has been corrected |
| 3.4 | 11.01.2014 | Rashin G. | Credit migration file structure. The document was translated |
| 3.5 | 13.01.2014 | Rashin G. | Credit migration file structure. Tag is\_grace\_enable has been moved from block dept\_interest to block dept |
| 3.6 | 27.01.2014 | Rashin G. | Clearing file structure. Custom participant added |
| 3.7 | 31.01.2014 | Kolodkina Y. | Account credit statement interface. Added fields currency\_name, oper\_type\_interest, total\_expence, overdue and overdue\_interest |
| 3.8 | 11.02.2014 | Necheukhin I. | Clearing file structure. Notes added |
| 3.9 | 20.02.2014 | Mashonkin V. | Account credit statement interface. Corrected dimension of field account\_number |
| 4.0 | 20.02.2014 | Necheukhin I. | Product migration file structure. First version of document |
| 4.1 | 21.02.2014 | Mashonkin V. | Account credit statement interface. Corrected Account, Contract, and Operation blocks |
| 4.2 | 24.02.2014 | Necheukhin I. | Product migration file structure. Element attribute has been renamed to attribute\_value; mod\_id has been added |
| 4.3 | 25.02.2014 | Necheukhin I. | Clearing file structure. Tag notes\_content has been modified and tag oper\_count has been added |
| 4.4 | 25.02.2014 | Necheukhin I. | Product migration file structure. Cycle shift has been added |
| 4.5 | 26.02.2014 | Mashonkin V. | Clearing file structure. Added data to operation about Authorization(auth\_data), MasterCard financial message(ipm\_data), VISA financial message(baseII\_data) |
| 4.6 | 04.03.2014 | Necheukhin I. | Product migration file structure. Removed cycle\_start\_date |
| 4.7 | 06.03.2014 | Necheukhin I. | Cards information interface. Initial version |
| 4.8 | 07.03.2014 | Necheukhin I. | Cards information interface Change person name occurs from 1-\* to 1-1 |
| 4.9 | 17.03.2014 | Necheukhin I. | Product migration file structure. Limit\_check\_type added. |
| 5.0 | 19.03.2014 | Necheukhin I. | Product migration file structure. Command has been added to product\_service, fee\_base\_calc now mandatory |
| 5.1 | 21.03.2014 | Necheukhin I. | Cards information interface. Adding tags for cards instances, adding block preceding\_instance for card history |
| 5.2 | 24.03.2014 | Necheukhin I. | Accounts and customers interface file structure. Credit block has been added to account block. Balance block and customer block are not mandatory now. |
| 5.3 | 25.03.2014 | Necheukhin I. | Accounts and customers interface file structure. unpaid\_percent\_amount has been renamed to unpaid\_interest\_amount |
| 5.4 | 26.03.2014 | Kolodkina Y. | File structure black list of cards. Added block. |
| 5.5 | 26.03.2014 | Necheukhin I. | Accounts and customers interface file structure. account\_type and account\_status are optional now |
| 5.6 | 27.03.2014 | Alalykin A. | Card security data transmission file structure. Block «card» has been changed. |
| 5.7 | 31.03.2014 | Kolodkina Y. | Credit migration file structure. Added new tags into invoice. |
| 5.8 | 23.04.2014 | Kolodkina Y. | Credit migration file structure. Added example of interest fee. |
| 5.9 | 23.04.2014 | Alalykin A. | Clearing file structure. Some divergences between specification and XSD-scheme have been corrected. |
| 6.0 | 28.04.2014 | Alalykin A. | Clearing file structure. Some missed descriptions of dictionary articles have been added. |
| 6.1 | 28.04.2014 | Necheukhin.I. | Product migration file structure. Field “length\_type\_algorithm” has been added to fee tier block |
| 6.2 | 06.05.2014 | Alalykin A. | Clearing file structure. Description for tag file\_type has been corrected. |
| 6.3 | 16.05.2014 | Kolodkina Y. | Credit migration file structure. Added the tag additional\_interest\_rate.  Renamed tag interest\_fee into interest\_rate. |
| 6.4 | 23.05.2014 | Alalykin A. | Clearing file structure. Description for tag oper\_reason has been modified. |
| 6.5 | 30.05.2014 | Alalykin A. | Product migration file structure. Description for tag limit\_base has been corrected. |
| 6.6 | 04.06.2014 | Kolodkina Y. | Clearing file structure.  Added comment about oper\_count value. |
| 6.7 | 06.06.2014 | Kolodkina Y. | Card security data transmission file structure. Added element state into block card. |
| 6.8 | 19.06.2014 | Alalykin A. | Card security data transmission file structure. Description for tag *state* has been extended. |
| 6.9 | 27.06.2014 | Alalykin A. | Clearing file structure. New article (dictionary STTT) has been added to list for tag sttl\_type. |
| 6.10 | 27.06.2014 | Maslov I. | Add Settlement amount and reconciliation type to clearing file |
| 6.11 | 23.07.2014 | Maslov I. | Clearing file structure. Add tag “auth\_tag” |
| 6.12 | 07.08.2014 | Maslov I. | Add link to xsd and xml. Fixed description of account file |
| 6.13 | 15.08.2014 | Maslov I. | Fixed “account credit statement” and “notifications” |
| 6.14 | 15.08.2014 | Maslov I. | Fixed field sttl\_type, auth\_char\_ind and pos\_terminal\_cap |
| 6.15 | 25.08.2014 | Necheukhin I. | Adding status\_reason for CARD STATUS file |
| 6.16 | 31.10.2014 | Alalykin A. | Cards information interface. Block of cardholder’s post address has been added. |
| 6.17 | 11.11.2014 | Alalykin A. | Cards information interface. Block card\_info has been extended. |
| 6.18 | 17.11.2014 | Kolodkina Y. | Accounts and customers interface file. Added field aval\_balance into block of account. Added block limits into block of account. |
| 6.19 | 19.11.2014 | Alalykin A. | Cards information interface. Block limits has been added into block card\_info. |
| 6.20 | 27.06.2014 | Alalykin A. | Clearing file structure. Tag de055 data type changed to base64Hex. |
| 6.21 | 09.12.2014 | Maslov I. | Add tag “tag name” to auth\_tag block |
| 7.0 | 11.12.2014 | Maslov I. | Add new Structure: BIN, Settlement and Update operation |
| 7.1 | 24.12.2014 | Maslov I. | Add match\_staus for opeartion |
| 7.2 | 13.02.2014 | Alalykin A. | Cards information interface. Tag product\_number added to block card\_info. |
| 7.3 | 20.02.2014 | Maslov I. | Add filed to clearing format |
| 7.4 | 27.02.2015 | Maslov I. | Add additional field for BIN |
| 7.5 | 04.03.2015 | Maslov I. | Add additional field for Visa BIN |
| 7.6 | 27.03.2015 | Alalykin A. | Cards information interface. Tag pin\_update\_flag added to block card\_info. |
| 7.7 | 31.03.2015 | Kolodkina Y. | Cards information interface. Tags is\_pos\_default, is\_atm\_default added to block account. |
| 7.8 | 07.04.2015 | Alalykin A. | Clearing file structure. List of dictionary values for tag client\_id\_type extended with article CITPCRID (identification by card’s internal identifier). |
| 7.9 | 13.04.2015 | Alalykin A. | Account credit statement file structure. Misprint corrected. |
| 7.10 | 14.04.2015 | Kolodkina Y. | Cards information interface. Added account type ACTPLOYT. |
| 7.11 | 16.04.2015 | Kolodkina Y. | Clearing file structure. Added field ‘system\_trace\_audit\_number’. |
| 7.12 | 25.05.2015 | Kolodkina Y. | Clearing file structure. Added description for tags start\_date, end\_date, oper\_date, host\_date, oper\_count. |
| 7.13 | 25.05.2015 | Alalykin A. | Clearing file structure. Tag sttl\_type was made optional so far as it can be calculated. |
| 7.14 | 18.06.2015 | Filimonov A. | Added new tags in Clearing:  participant/card\_id,  participant/card\_instance\_id,  transaction/conversion\_rate,  transaction/amount\_purpose,  account/agent\_number.  Added new tags in Card statuses:  change\_id, result\_code, error\_code.  Added new tags in Currency rates:  result\_code, error\_code. |
| 7.15 | 23.06.2015 | Kolodkina Y. | Clearing file structure. Added field transaction\_id into tag auth\_data. |
| 7.16 | 01.07.2015 | Kolodkina Y. | Product migration file structure. Added tags product\_account\_type and product\_card\_type. |
| 7.17 | 01.07.2015 | Kondratyev A. | Description of product migration file structure. Added description tag language in product\_name tag. |
| 7.18 | 08.07.2015 | Gaidarly A. | Cards information interface. Added ‘personalization\_info’, ‘company\_name’, ‘service\_code’ tags. |
| 7.19 | 08.07.2015 | Gaidarly A. | Card security data transmission file structure. Added ‘cardholder\_name’, ‘company\_name’, ‘personalization\_info’ tags. |
| 7.20 | 14.07.2015 | Kolodkina Y. | Product migration file structure. Set min\_count, max\_count mandatory. |
| 7.21 | 14.07.2015 | Kolodkina Y. | Product migration file structure. Added element ‘definition\_level’ into ‘attribute\_value’. |
| 7.22 | 21.07.2015 | Alalykin A. | Clearing file structure. A new tag additional\_amount added. |
| 7.23 | 21.07.2015 | Kolodkina Y. | Product migration file structure. Added elements: ‘entity\_type’, ‘object\_id’, ‘object\_number’ into element ‘attribute\_value’. |
| 7.24 | 23.07.2015 | Kolodkina Y. | Clearing file structure. Added fields external\_auth\_id, external\_orig\_id into tag auth\_data. |
| 7.25 | 30.07.2015 | Kolodkina Y. | Clearing file structure. Structure of response file added. |
| 7.26 | 12.08.2015 | Alalykin A. | Clearing file structure. New tag agent\_unique\_id added to auth\_data. |
| 7.27 | 27.08.2015 | Sebua D. | Clearing file structure. In baseII\_data added fields: sttl\_service, sre\_id, up\_sre\_id, jurisdict, routing, src\_region, dst\_region, src\_country, dst\_country, bus\_tr\_type, first\_count. In ipm\_data added fields: p0302, p0368. |
| 7.28 | 01.09.2015 | Kolodkina Y. | Cards information interface. Added tag ‘notification’ |
| 7.29 | 01.09.2015 | Kolodkina Y. | Accounts and customers interface file structure. Added tag ‘payment’ |
| 7.30 | 07.10.2015 | Kolodkina Y. | Added tag ‘native\_resp\_code’ into tag auth\_data. |
| 7.31 | 29.10.2015 | Kolodkina Y. | Added article ‘OPST0404’ into description of ‘OPST’ dictionary. |
| 7.32 | 03.11.2015 | Kolodkina Y. | Accounts and customers interface file structure. Added tag ‘inst\_id’. |
| 7.33 | 16.11.2015 | Kolodkina Y. | Cards information interface. Added tag ‘category’ |
| 7.34 | 23.11.2015 | Kolodkina Y. | Product migration file structure. Added comments for tags ‘initial\_service\_number, min\_count, max\_count’. |
| 7.35 | 22.12.2015 | Kondratyev A. | Clearing file structure. Added field ‘sttl\_date’ into tag ‘operation’. |
| 7.36 | 16.12.2015 | Alalykin A. | Clearing file structure. Field P0147 was added |
| 7.34 | 22.12.2015 | Alalykin A. | Card information interface. Field card\_state was added |
| 7.35 | 24.02.2016 | Truschelev O. | Card information interface. Added tag ‘tokenized\_pan’ |
| 7.36 | 24.02.2016 | Truschelev O. | Card information interface. Tag ‘tokenized\_pan’ is not mandatory now. |
| 7.37 | 24.02.2016 | Truschelev O. | Card information interface. Tag ‘tokenized\_pan’ is moved to header of XML file. |
| 7.38 | 15.03.2016 | Kolodkina Y. | Account and customers interface file structure. Added tag ‘service’ into tag account. |
| 7.39 | 16.03.2016 | Kolodkina Y. | Cards information interface. Added tag ‘service’ into tag card\_info. |
| 7.40 | 28.03.2016 | Kolodkina Y. | Amended description of tags: limit\_sum\_value and limit\_count\_value. |
| 7.41 | 31.05.2016 | Truschelev O. | Clearing file structure. Fields P0208\_1, P0208\_2, P0209 were added. |
| 7.42 | 20.06.2016 | Kolodkina Y. | Clearing file structure. Added fields: clearing\_sequence\_num, clearing\_sequence\_count into tag operation. |
| 7.43 | 05.07.2016 | Alalykin A. | Clearing file structure. New field auth\_purpose\_id was added to block auth\_data |
| 7.44 | 14.07.2016 | Kolodkina Y. | Credit migration file structure. Added new tag ‘overdue\_date’ into invoice. |
| 7.45 | 12.07.2016 | Alalykin A. | Accounts and customers interface transmission file structure. Tag tokenized\_pan was added. |
| 7.46 | 26.07.2016 | Alalykin A. | Currency rates file structure. Description of tag rate\_type was corrected. |
| 7.47 | 28.07.2016 | Kolodkina Y. | Cards information interface. The type of field card\_id was replaced. |
| 7.48 | 29.07.2016 | Alalykin A. | Cards information interface. New tag flexible\_data. |
| 7.49 | 29.07.2016 | Alalykin A. | Clearing file structure. New tag additional\_amount. |
| 7.50 | 03.08.2016 | Alalykin A. | Cards information interface. New tags agent\_name and product\_name. |
| 7.51 | 09.08.2016 | Truschelev O. | Card Security Data interface. New tag card\_security/PIN\_offset. |
| 7.52 | 29.08.2016 | Kazakov I. | Contact block is added for Card info service Cardholder |
| 7.53 | 31.01.2017 | Kondratyev A. | Accounts and customers interface file structure. Added tags ‘note’, ‘note\_type’, ‘note\_content’, ‘language’, ‘header’, ‘note\_text’ |
| 7.54 | 08.02.2017 | Pestryakov D. | Cards information interface. Added notification service tags ‘start\_date’ and ‘end\_date’ |
| 7.55 | 27.02.2017 | Shalnov N. | Cards information interface. Tags is\_pos\_currency, is\_atm\_currency added to block account. |
| 7.56 | 13.03.2017 | Pestryakov D. | Accounts and customers interface file structure. Tag ‘credit’ is added. |
| 7.57 | 13.03.2017 | Alalykin A. | Cards information interface. New complex tag stop\_list\_event |
| 7.58 | 27.03.2017 | Pestryakov D. | Accounts and customers interface file structure. Customer limit added (credit limit level) |
| 7.59 | 30.03.2017 | Gogolev I. | Accounts and customers interface file structure. Complex element flexible\_field added |
| 7.60 | 29.05.2017 | Gogolev I. | Accounts and customers interface file structure. Elements payment\_amount and aging\_period added |
| 7.61 | 01.08.2017 | Gyumyush D. | Cards information interface. Added a new account tag “instance\_number” |
| 7.62 | 11.08.2017 | Gogolev I. | Currency rates file structure. New dictionary values of tag rate\_type |
| 7.63 | 14.08.2017 | Serov A. | Reconciliation file structure. New interface created |
| 7.64 | 24.08.2017 | Serov A. | Reconciliation file structure. Changing file type of a reconciliation file |
| 7.65 | 25.08.2017 | Alalykin A. | Cards information interface. Account tag instance\_number was renamed to account\_seq\_number |
| 8.0 | 10.10.2017 | Alalykin A. | Merging changes from duplicated version (SmartVista FrontEnd), restoring correct SVXP structure |
| 8.1 | 12.10.2017 | Serov A. | Reconciliation Hosts file structure. New interface. |
| 8.2 | 02.11.2017 | Truschelev O. | Clearing information interface. Tag ‘forwarding\_inst\_bin’ is added in block ‘operation’ |
| 8.3 | 10.11.2017 | Kondratyev A. | Clearing file structure. Tag payment\_date has been added to block payment\_order. |
| 8.4 | 30.11.2017 | Gogolev I. | Added tag “service\_number” in block card\_info/notification |
| 8.5 | 27.12.2017 | Gogolev I. | Added tag “acq\_sttl\_date” for Clearing file structure in block Operation. Changed section 3.3.2 |
| 8.6 | 28.12.2017 | Serov Alexey | Host-to-host reconciliation have put into a separate document |
| 8.7 | 26.01.2018 | Zenkov P. | Clearing file structure. Added tag rate\_type to block transaction. |
| 8.8 | 05.02.2018 | Gerbeev I. | Added tag “product” (“MasterCard Product Identifier”) to table in section 12.3 LIST OF TAGS. |
| 8.9 | 06.04.2018 | Fomichev Andrey | Added Payment order file format (paragraph 18) |
| 8.10 | 09.04.2018 | Fomichev Andrey | Clearing file structure. Tag “match\_id” has been added to block “Operation”. (section 3.3.2). |
| 8.11 | 18.05.2018 | Gyumyush D. | Added risk indicator value into clearing file structure |
| 8.12 | 20.05.2018 | Gyumyush D. | Added entity and object tags into notification block |
| 9.2 | 26.06.2018 | Pestryakov D. | Clearing file structure. Flexible data tag added. |
| 9.3 | 28.06.2018 | Gyumyush D. | Added visa product id into baseII data |
| 9.4 | 06.08.2018 | Pestryakov D. | Limit usage added to limit structure |
| 9.5 | 09.08.2018 | Kolodkina Y. | Added new part – 19 Settlement acknowledgement file structure |
| 9.6 | 24.08.2018 | Serov A. | Additional amounts block is added into reconciliation format. |
| 9.7 | 03.09.2018 | Kolodkina Y. | Card information interface is moved into svxp\_svfe\_interfaces\_eng.docx |
| 9.8 | 17.09.2018 | Truschelev O. | Clearing file structure: (1) added tag “original\_id” in block “operation”, (2) added tag “status” in blocks “debit\_entry” and “credit\_entry”,  (3) added tag “balance\_type” in block “account”,  (4) rename tag “transaction\_id” into tag “auth\_transaction\_id” in block “auth\_data” |
| 9.9 | 21.09.2018 | Kolodkina Y. | 1. Removed Currency rates file structure. See it in Dictionary specification. 2. Fee file structure is moved to Migration specification 3. Notification file structure is moved to CMS specification 4. Credit migration file structure is moved to Migration specification 5. Product migration file structure is moved to Migration specification 6. Account credit statement file structure is moved to migration 7. Card black list file structure is moved into CMS specification 8. BIN file structure is moved to Dictionary specification 9. Response file structure is moved to SVFE specification 10. Reconciliation file structure is moved to RCN specification and renamed to Reconciliation CBS file structure 11. Card status file structure is moved to CMS specification 12. Card security data transmission file structure is moved to CMS specification |
| 9.10 | 24.09.2018 | Kolodkina Y. | Modified Account and Customer file structure (splitted on two formats). |
| 9.11 | 01.10.2018 | Kolodkina Y. | Clearing file structure. Added tag ‘seq\_number’ into complex tag ‘auth\_tag’. |
| 9.12 | 10.12.2018 | Pestryakov D. | sttl\_flag\_date field added in sttl. ack. File |

* 1. Document purpose

SmartVista Exchange Protocol is a reference manual for developers who are implementing API of the SmartVista solution. This document is written for internal use of BPC and BPC Customers developers. The document describes the content and the structure of the API.

It is supposed document users to be familiar with financial transactions, communications and XML data format.

1. SMARTVISTA INTEGRATION SERVICES OVERVIEW
   1. General concepts

SmartVista Exchange Protocol (SVXP hereafter) provides a description of the file formats of information exchange between Smartvista and external systems. File format xml. For each format will be described in this document, XML Schema Definition language (XSD) and provided examples.

* 1. Data types, Occurrence, Dictionaries

For SVXP methods the standard XML data types are used. Those are fully described in the following document**XML Schema Part 2: Datatypes Second Edition and** t can be found here: [***http://www.w3.org/TR/xmlschema-2/***](http://www.w3.org/TR/xmlschema-2/)

Within the current document all the SVXP messages are described in the table structure below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tag name | Data type | Length | Occurrence (min-max) | Description |
| AccountsRequest | | | | |
| customer\_number | string | 200 | 0-1 | Customer number. |
| inst\_id | long | 4 | 1-1 | Institution identifier. |
| customer\_id | long | 12 | 0-1 | Customer identifier. |
| card\_number | string | 24 | 0-1 | Card number. |
| card\_id | long | 12 | 0-1 | Card identifier. |
| status | string | 8 | 0-1 | Account status. Please refer to ACST dictionary. |
| account\_type | string | 8 | 0-1 | Account type. Please refer to ACTP dictionary. |
| Lang | string | 7 | 0-1 | Language. Please refer to LANG dictionary. |

**Data Type:** SVXP tags can be of Primitive XML Data Types (string, long, boolean, etc ) or Complex Data Types (Aggregates).

**Occurrence**: This field defines if the field is mandatory or optional (first number) as well as maximum number occurrences of this tag in the message (last digit)

e.g. 1-1 = minOccurs="1" maxOccurs="1"

Documentation is provided along with Examples of the Request messages for all of the methods described below.

1. CLEARING FILE STRUCTURE
   1. Overview

The file contains comprehensive information on financial transactions. Including members of the operation, financial transactions created on the basis of the operation, as well as bank documents relating to them. The information about transactions is synchronized between the SmartVista and third-party system.

The direction of the file may be INCOMING / OUTGOING.

* 1. References

Format of clearing file described by XSD file.

SVXP XSD: svxp\_clearing.xsd

Example of xml document with most common operation:

svxp\_account\_status\_change.xml – account status change

svxp\_card\_status\_change.xml – card status change

svxp\_clearing\_in\_example.xml – incoming payment operation

svxp\_clearing\_out\_example.xml – purchase

svxp\_clearing\_terminal\_status\_example.xml – terminal status change

svxp\_credit\_debit\_adjustment\_example.xml – debit and credit adjustment

svxp\_credit\_limit\_example.xml - providing credit limit

svxp\_fee\_debit\_credit\_account\_example.xml – Debit account

svxp\_mad\_repayment\_example.xml – MAD(Minimum Amount Due) repayment

svxp\_merchant\_status\_change.xml - merchant status change

svxp\_purchase\_account\_example.xml – purchase by account id

svxp\_purchase\_example.xml – purchase by card number

svxp\_set\_entity\_limit\_example.xml - Set entity limit

svxp\_utility\_payment\_example.xml - Service provider payment

* 1. List of elements

| Tag | Type | | Size | Occurs | Description |
| --- | --- | --- | --- | --- | --- |
| clearing | | | | | |
| file\_id | long | | 16 | 0-1 | Unique identifier of outgoing file |
| file\_type | string | | 8 | 1-1 | Type of incoming/ongoing file. Describe the purpose of data in file. Dictionary FLTP |
| original\_file\_id | long | | 16 | 0-1 | Reference to outgoing file if file is response on another file. |
| start\_date | date | |  | 0-1 | Start date of period which represented in file. The date include the date and time. |
| end\_date | date | |  | 0-1 | Represented period end date. The date include the date and time. |
| inst\_id | int | | 4 | 0-1 | Identifier of partner (system) which related with operations. |
| operation | operation | |  | 1-\* | Operation data |
| operation | | | | | |
| oper\_id | long | | 16 | 0-1 | Operation identifier |
| oper\_type | string | | 8 | 1-1 | Operation type. Dictionary OPTP |
| msg\_type | string | | 8 | 0-1 | Message type. Dictionary MSGT |
| sttl\_type | string | | 8 | 0-1 | Settlement type. Dictionary STTT |
| original\_id | long | | 16 | 0-1 | Operation identifier of original operation |
| reconciliation\_type | string | | 8 | 0-1 | Reconciliation type. Dictionary RCLM |
| oper\_date | date | |  | 0-1 | Date when operation occurs |
| host\_date | date | |  | 0-1 | Processing date |
| oper\_count | long | | 16 | 0-1 | Operations count |
| oper\_amount | amount | |  | 0-1 | Original operation amount |
| oper\_request\_amount | amount | |  | 0-1 | Operation requested amount in operation currency |
| oper\_surcharge\_amount | amount | |  | 0-1 | Operation surcharge amount |
| oper\_cashback\_amount | amount | |  | 0-1 | Operation cashback amount |
| sttt\_amount | amount | |  | 0-1 | Settlement operation amount |
| interchange\_fee | amount | |  | 0-1 | Interchange fee amount |
| originator\_refnum | string | | 36 | 0-1 | Reference number generated by originator of operation |
| network\_refnum | string | | 36 | 0-1 | Reference number incoming from external network |
| acq\_inst\_bin | string | | 12 | 0-1 | Acquirer BIN |
| forwarding\_inst\_bin | string | | 12 | 0-1 | Forwarding BIN |
| response\_code | string | | 8 | 0-1 | Code of operation processing result. Dictionary RCLM |
| oper\_reason | string | | 8 | 0-1 | Operation reason. Dictionary ADJR, PMRS, BLTP, LMTP |
| status | string | | 8 | 0-1 | Authorization status. Dictionary OPST |
| status\_reason | string | | 8 | 0-1 | Reason of status. Dictionary value. Dictionary OPST |
| is\_reversal | int | | 1 | 0-1 | 0 – operation is not reversal  1 – operation is reversal |
| merchant\_number | string | | 15 | 0-1 | Merchant number |
| mcc | string | | 4 | 0-1 | Merchant category code |
| merchant\_name | string | | 200 | 0-1 | Merchant name |
| merchant\_street | string | | 200 | 0-1 | Merchant street address |
| merchant\_city | string | | 200 | 0-1 | Merchant’s city |
| merchant\_region | string | | 3 | 0-1 | Region of merchant |
| merchant\_country | string | | 3 | 0-1 | Country of merchant |
| merchant\_postcode | string | | 10 | 0-1 | Merchant’s postal code |
| terminal\_type | string | | 8 | 0-1 | Terminal type. Dictionary TRMT |
| terminal\_number | string | | 8 | 0-1 | Terminal number |
| risk\_indicator | string | | 8 | 0-1 | Risk indicator value. Dictionary FMRI |
| sttl\_date | date | |  | 0-1 | Settlement date |
| acq\_sttl\_date | date | |  | 0-1 | Settlement date on the acquirer side |
| match\_id | long | | 16 | 0-1 | Link between authorizations and presentment. |
| match\_status | string | | 8 | 0-1 | Matching status |
| clearing\_sequence\_num | int | | 2 | 0-1 | Multiple Clearing Sequence Number |
| clearing\_sequence\_count | int | | 2 | 0-1 | Multiple Clearing Sequence Count |
| payment\_order | payment\_order | |  | 0-1 | Describe payment order parameters |
| transaction | transaction | |  | 0-\* | Financial transaction made by operation |
| document | document | |  | 0-1 | Banking document associated with operation |
| issuer | participant | |  | 0-1 | Operation participant - issuer |
| acquirer | participant | |  | 0-1 | Operation participant - acquirer |
| destination | participant | |  | 0-1 | Operation participant - destination |
| aggregator | participant | |  | 0-1 | Operation participant – payment aggregator |
| service\_provider | participant | |  | 0-1 | Operation participant – service provider |
| participant | participant | |  | 0-\* | Custom participant |
| note | note | |  | 0-\* | Note |
| auth\_data | auth\_data | |  | 0-1 | Authorization |
| ipm\_data | ipm\_data | |  | 0-1 | MasterCard financial message |
| baseII\_data | baseII\_data | |  | 0-1 | VISA financial message |
| additional\_amount | additional\_amount | |  | 0-\* | Operation’s additional amounts |
| processing\_stage | processing\_stage | |  | 0-\* | Processing stages that are associated with an operation |
| flexible\_data | flexible\_data | |  | 0-\* | Flexible fields and values |
| Participant | | | | | |
| participant\_type | string | | 8 | 0-1 | Custom participant type. Dictionary PRTY |
| client\_id\_type | string | | 8 | 0-1 | Type of customer identification. Dictionary CITP |
| client\_id\_value | string | | 200 | 0-1 | Customer identifier in accordance with identification type |
| card\_number | string | | 19 | 0-1 | Card number |
| card\_id | long | | 12 | 0-1 | Internal card identifier |
| card\_instance\_id | long | | 12 | 0-1 | Internal card instance identifier |
| card\_seq\_number | int | | 4 | 0-1 | Card sequential number |
| card\_expir\_date | date | |  | 0-1 | Card expiration date |
| card\_country | string | | 3 | 0-1 | Card country |
| inst\_id | int | | 4 | 0-1 | Identifier of participant institution. |
| Network\_id | int | | 4 | 0-1 | Network id |
| auth\_code | string | | 6 | 0-1 | Auth code |
| account\_number | string | | 32 | 0-1 | Account number |
| account\_amount | long | | 16 | 0-1 | Amount addressed to participant account |
| account\_currency | string | | 3 | 0-1 | Account currency |
| payment\_order | | | | | |
| payment\_order\_id | long | | 16 | 0-1 | Payment order identifier |
| payment\_order\_status | string | | 8 | 0-1 | Status of payment order. Dictionary POSA |
| payment\_order\_number | string | | 200 | 0-1 | Payment order number from external system |
| purpose\_id | int | | 8 | 0-1 | Purpose id |
| purpose\_number | string | | 200 | 0-1 | External purpose id |
| payment\_amount | amount | |  | 0-1 | Payment order amount |
| payment\_date | date | |  | 0-1 | Payment order date |
| payment\_parameter | complex | |  | 0-\* | Payment order parameter |
| participant\_type | string | | 8 | 0-1 | Participant type for using as customer in payment order. Dictionary:  PRTYACQ – acquirer  PRTYDST – destination  PRTYISS – issuer  PRTYPAGR – aggregator  PRTYSRVP – service provider  Participant of that type must be present in the operation |
| document | complex | |  | 0-1 | Banking document associated with payment order |
| payment\_parameter | | | | | |
| payment\_parameter\_name | string | | 200 | 1-1 | Name of parameter |
| payment\_parameter\_value | string | | 2000 | 1-1 | Parameter value |
| transaction | | | | | |
| transaction\_id | long | | 16 | 1-1 | Internal identifier of transaction |
| transaction\_type | string | | 8 | 0-1 | Type of transaction. Dictionary TRNT |
| posting\_date | date | |  | 0-1 | Transaction posting date |
| debit\_entry | entry | |  | 0-1 | Debit part of transaction |
| credit\_entry | entry | |  | 0-1 | Credit part of transaction |
| document | document | |  | 0-1 | Document associated with transaction |
| conversion\_rate | float | |  | 0-1 | Conversion rate |
| rate\_type | string | | 8 | 0-1 | Conversion rate type |
| amount\_purpose | string | | 8 | 0-1 | Amount purpose. Fee type. |
| entry | | | | | |
| entry\_id | long | | 16 | 1-1 | Internal identifier of entry |
| status | string | | 8 | 0-1 | Entry status. Dictionary ENTR |
| account | account | |  | 1-1 | Account that affected by entry |
| amount | amount | |  | 1-1 | Transaction amount |
| account | | | | | |
| account\_number | string | | 32 | 1-1 | Account number |
| currency | string | | 3 | 1-1 | Account currency |
| balance\_type | string | | 8 | 0-1 | Balance type. Dictionary BLTP |
| agent\_number | string | | 200 | 0-1 | Agent number when account was opened |
| amount | | | | | |
| amount\_value | long | | 16 | 1-1 | Amount value expressed in minimal currency units |
| currency | string | | 3 | 1-1 | Amount currency |
| document | | | | | |
| document\_id | long | | 16 | 1-1 | Document identifier |
| document\_type | string | | 8 | 1-1 | Document type. Dictionary DCMT |
| document\_date | date | |  | 1-1 | Document date |
| document\_number | string | | 200 | 1-1 | Document number |
| document\_content | document\_content | |  | 0-\* | Document content. Structural parts of document. |
| document\_content | | | | | |
| content\_type | string | | 8 | 1-1 | Document content type. Dictionary value: DCCT0010 – printable form |
| content | base64Binary | |  | 1-1 | BASE64 encoded content of the document |
| note | | | | | |
| note\_type | string | | 8 | 1-1 | Note type: NTTPUSER – user comment;  NTTPRSTR - Notes for registry of opened and closed accounts;  NTTPDLVR – Delivery notes. |
| note\_content | note\_content | |  | 1-\* | Content of the note |
| note\_content | | | | | |
| language | string | | 8 | 1-1 | Attribute. Dictionary LANG. For example:   * LANGENG * LANGRUS * LANGBUL |
| note\_header | string | |  | 0-1 | Header of the note |
| note\_text | string | |  | 0-1 | Text of the note |
| auth\_data | | | | | |
| resp\_code | string | | 8 | 0-1 | Response code. Dictionary RESP |
| proc\_type | string | | 8 | 0-1 | Type of authorization processing. Dictionary AUPT |
| proc\_mode | string | | 8 | 0-1 | Mode of authorization processing. Dictionary AUPM |
| is\_advice | int | | 1 | 0-1 | Flag shows if authorization is advice. |
| is\_repeat | int | | 1 | 0-1 | Flag shows if authorization is repeat. |
| bin\_amount | long | | 16 | 0-1 | Account billing amount in BIN currency |
| bin\_currency | string | | 3 | 0-1 | BIN currency |
| bin\_cnvt\_rate | long | | 16 | 0-1 | Converting rate from BIN currency into transaction currency. |
| network\_amount | long | | 16 | 0-1 | Account billing amount in network BIN currency |
| network\_currency | string | | 3 | 0-1 | Network BIN currency |
| network\_cnvt\_date | date | |  | 0-1 | Date of network conversion |
| network\_cnvt\_rate | long | | 16 | 0-1 | Converting rate from network BIN currency into transaction currency. |
| account\_cnvt\_rate | long | | 16 | 0-1 | Converting rate from account(billing) currency into transaction currency. |
| addr\_verif\_result | string | | 8 | 0-1 | Result of address verification if it was performed. Dictionary AVRS |
| acq\_resp\_code | string | | 8 | 0-1 | Response code that was sent to authorization source. |
| acq\_device\_proc\_result | string | | 8 | 0-1 | Result of response processing by device. |
| cat\_level | string | | 8 | 0-1 | CAT level. Dictionary F22D |
| card\_data\_input\_cap | string | | 8 | 0-1 | Card data input capability. Dictionary F221 |
| crdh\_auth\_cap | string | | 8 | 0-1 | Cardholder authentication capability. Dictionary F222 |
| card\_capture\_cap | string | | 8 | 0-1 | Card capture capability. Dictionary F223 |
| terminal\_operating\_env | string | | 8 | 0-1 | Operating environment. Dictionary F224 |
| crdh\_presence | string | | 8 | 0-1 | Cardholder presence indicator. Dictionary F225 |
| card\_presence | string | | 8 | 0-1 | Card presence indicator. Dictionary F226 |
| card\_data\_input\_mode | string | | 8 | 0-1 | Card data input mode. Dictionary F227 |
| crdh\_auth\_method | string | | 8 | 0-1 | Cardholder authentication method. Dictionary F228 |
| crdh\_auth\_entity | string | | 8 | 0-1 | Cardholder authentication entity. Dictionary F229 |
| card\_data\_output\_cap | string | | 8 | 0-1 | Card data output capability. Dictionary F22A |
| terminal\_output\_cap | string | | 8 | 0-1 | Terminal output capability. Dictionary F22B |
| pin\_capture\_cap | string | | 8 | 0-1 | Pin capture capability. Dictionary F22C |
| pin\_presence | string | | 8 | 0-1 | Pin presence indicator. Dictionary PINP |
| cvv2\_presence | string | | 8 | 0-1 | CVC2/CVV2 presence indicator. Dictionary CV2P |
| cvc\_indicator | string | | 8 | 0-1 | CVC validation code result. |
| pos\_entry\_mode | string | | 3 | 0-1 | POS entry mode |
| pos\_cond\_code | string | | 2 | 0-1 | POS condition code |
| emv\_data | string | | 2000 | 0-1 | EMV raw data |
| atc | string | | 4 | 0-1 | Application transaction counter |
| tvr | string | | 200 | 0-1 | Terminal verification results |
| cvr | string | | 200 | 0-1 | Card verification results |
| addl\_data | string | | 2000 | 0-1 | Additional authorization data. |
| service\_code | string | | 3 | 0-1 | Service code |
| device\_date | date | |  | 0-1 | Date on device when authorization was recieved |
| cvv2\_result | string | | 8 | 0-1 | CVV2 result. Dictionary CV2R |
| certificate\_method | string | | 8 | 0-1 | Certificate method (Secured, 3Ds, UCAF, etc.). Dictionary CRTM |
| certificate\_type | string | | 8 | 0-1 | Type of data encryption in E-Commerce transactions. Dictionary CRTT |
| merchant\_certif | string | | 100 | 0-1 | Contains a value assigned to a VSEC merchant certificate issued by the acquirer's certificate authority. |
| cardholder\_certif | string | | 100 | 0-1 | Contains a value assigned to a VSEC cardholder certificate issued by the acquirer's certificate authority. |
| ucaf\_indicator | string | | 8 | 0-1 | Indicator of supporting UCAF data. This field indicate supporting MasterCard e-commerce Universal Cardholder Authentication data. |
| is\_early\_emv | int | | 1 | 0-1 | Early EMV option |
| is\_completed | string | | 8 | 0-1 | Flag shows if authorization is completed. Dictionary CMPF |
| amounts | string | | 4000 | 0-1 | Authorization amounts for online authorization processing |
| system\_trace\_audit\_number | string | | 6 | 0-1 | System Trace Audit Number |
| auth\_transaction\_id | string | | 15 | 0-1 | Authorization transaction identifier |
| external\_auth\_id | string | | 30 | 0-1 | External authorization identifier |
| external\_orig\_id | string | | 30 | 0-1 | External authorization identifier of original |
| agent\_unique\_id | string | | 5 | 0-1 | Agent unique ID (Digital entity identifier for VISA checkout) |
| native\_resp\_code | string | | 2 | 0-1 | Authorization response code in native format |
| auth\_purpose\_id | long | | 16 | 0-1 | Authorization purpose identifier. It is additional attribute of an operation that specifies purpose of a payment |
| auth\_tag | auth\_tag | |  | 0-\* | Authorizations tags |
| auth\_tag | | | | | |
| tag\_id | int | | 8 | 0-1 | Tag identifier. This tag optional if present tag\_name |
| tag\_name | string | | 200 | 0-1 | Tag name. This tag optional if present tag\_id |
| tag\_value | string | | 2000 | 0-1 | Tag value |
| seq\_number | int | | 4 | 0-1 | Sequential number of tag occurrence in operation |
| ipm\_data | | | | | |
| is\_incoming | | int | 1 | 0-1 | Incoming indicator |
| is\_reversal | | int | 1 | 0-1 | Reversal indicator |
| is\_rejected | | int | 1 | 0-1 | Rejected indicator |
| impact | | int | 1 | 0-1 | Message impact |
| mti | | string | 4 | 0-1 | The Message Type Identifier (MTI) is a four-digit numeric field describing the type of message being interchanged |
| de024 | | string | 3 | 0-1 | DE 24 (Function Code) indicates a messages specific purpose. |
| de002 | | string | 19 | 0-1 | DE 2 (Primary Account Number [PAN]) is a series of digits that identify a customer account or relationship. |
| de003\_1 | | string | 2 | 0-1 | Cardholder Transaction Type |
| de003\_2 | | string | 2 | 0-1 | Cardholder "From" Account Type Code |
| de003\_3 | | string | 2 | 0-1 | Cardholder "To" Account Type Code |
| de004 | | long | 12 | 0-1 | Amount, Transaction |
| de005 | | long | 12 | 0-1 | Amount, Reconciliation |
| de006 | | long | 12 | 0-1 | Amount, Cardholder Billing |
| de009 | | string | 8 | 0-1 | Conversion Rate, Reconciliation |
| de010 | | string | 8 | 0-1 | Conversion Rate, Cardholder Billing |
| de012 | | date |  | 0-1 | Date and Time, Local Transaction |
| de014 | | date |  | 0-1 | DE 14 (Date, Expiration) specifies the year and month after which a card expires. |
| de022\_1 | | string | 1 | 0-1 | Terminal Data: Card Data Input Capability |
| de022\_2 | | string | 1 | 0-1 | Terminal Data: Cardholder Authentication Capability |
| de022\_3 | | string | 1 | 0-1 | Terminal Data: Card Capture Capability |
| de022\_4 | | string | 1 | 0-1 | Terminal Operating Environment |
| de022\_5 | | string | 1 | 0-1 | Cardholder Present Data |
| de022\_6 | | string | 1 | 0-1 | Card Present Data |
| de022\_7 | | string | 1 | 0-1 | Card Data: Input Mode |
| de022\_8 | | string | 1 | 0-1 | Cardholder Authentication Method |
| de022\_9 | | string | 1 | 0-1 | Cardholder Authentication Entity |
| de022\_10 | | string | 1 | 0-1 | Card Data Output Capability |
| de022\_11 | | string | 1 | 0-1 | Terminal Data Output Capability |
| de022\_12 | | string | 1 | 0-1 | PIN Capture Capability |
| de023 | | int | 3 | 0-1 | Card Sequence Number |
| de025 | | string | 4 | 0-1 | Message Reason Code |
| de026 | | string | 4 | 0-1 | Card Acceptor Business Code (MCC) |
| de030\_1 | | long | 12 | 0-1 | Original Amount, Transaction |
| de030\_2 | | long | 12 | 0-1 | Original Amount, Reconciliation |
| de031 | | string | 23 | 0-1 | Acquirer Reference Data |
| de032 | | string | 11 | 0-1 | Acquiring Institution ID Code |
| de033 | | string | 11 | 0-1 | Forwarding Institution ID Code |
| de037 | | string | 12 | 0-1 | Retrieval Reference Number |
| de038 | | string | 6 | 0-1 | Approval Code |
| de040 | | string | 3 | 0-1 | Service Code |
| de041 | | string | 8 | 0-1 | Card Acceptor Terminal ID |
| de042 | | string | 15 | 0-1 | Card Acceptor ID Code |
| de043\_1 | | string | 99 | 0-1 | Card Acceptor Name |
| de043\_2 | | string | 99 | 0-1 | Card Acceptor Street Address |
| de043\_3 | | string | 99 | 0-1 | Card Acceptor City |
| de043\_4 | | string | 99 | 0-1 | Card Acceptor Postal (ZIP) Code |
| de043\_5 | | string | 3 | 0-1 | Card Acceptor State, Province, or Region Code |
| de043\_6 | | string | 3 | 0-1 | Card Acceptor Country Code |
| de049 | | string | 3 | 0-1 | Currency Code, Transaction |
| de050 | | string | 3 | 0-1 | Currency Code, Reconciliation |
| de051 | | string | 3 | 0-1 | Currency Code, Cardholder Billing |
| de054 | | string | 20 | 0-1 | DE 54 (Amounts, Additional) are additional amounts and related account data for which specific data elements have not been defined |
| de055 | | base64Hex | 350 | 0-1 | BASE64 encoded. Integrated Circuit Card (ICC) System-Related Data. Result’s length <= 256 |
| de063 | | string | 16 | 0-1 | Transaction Life Cycle ID |
| de071 | | int | 7 | 0-1 | Message Number |
| de072 | | string | 999 | 0-1 | Data Record |
| de073 | | date |  | 0-1 | Date, Action |
| de093 | | string | 11 | 0-1 | Transaction Destination Institution ID Code |
| de094 | | string | 11 | 0-1 | Transaction Originator Institution ID Code |
| de095 | | string | 10 | 0-1 | Card Issuer Reference Data |
| de100 | | string | 11 | 0-1 | Receiving Institution ID Code |
| de111 | | long | 12 | 0-1 | Amount, Currency Conversion Assessment |
| p0002 | | string | 3 | 0-1 | PDS 0002 (GCMS Product Identifier) identifies the product recognized by GCMS. |
| p0023 | | string | 3 | 0-1 | PDS 0023 (Terminal Type) identifies the type of terminal used at the point of interaction. |
| p0025\_1 | | string | 1 | 0-1 | Message Reversal Indicator |
| p0025\_2 | | date |  | 0-1 | Central Site Processing Date of Original Message |
| p0043 | | string | 3 | 0-1 | Program Registration ID |
| p0052 | | string | 3 | 0-1 | Electronic Commerce Security Level Indicator |
| p0137 | | string | 20 | 0-1 | Fee Collection Control Number |
| p0148 | | string | 60 | 0-1 | Currency Exponents |
| p0146 | | string | 432 | 0-1 | Amounts, Transaction Fee |
| p0146\_net | | long | 12 | 0-1 | Net value of p0146 Amounts, Transaction Fee |
| p0147 | | string | 576 | 0-1 | Extented Fee Amounts |
| p0149\_1 | | string | 3 | 0-1 | Currency Code, Original Transaction Amount |
| p0149\_2 | | string | 3 | 0-1 | Currency Code, Original Reconciliation Amount |
| p0158\_1 | | string | 3 | 0-1 | Card Program Identifier |
| p0158\_2 | | string | 1 | 0-1 | Business Service Arrangement Type Code |
| p0158\_3 | | string | 6 | 0-1 | Business Service ID Code |
| p0158\_4 | | string | 2 | 0-1 | Interchange Rate Designator |
| p0158\_5 | | date |  | 0-1 | Business Date |
| p0158\_6 | | int | 2 | 0-1 | Business Cycle |
| p0158\_7 | | string | 1 | 0-1 | Card Acceptor Classification Override Indicator |
| p0158\_8 | | string | 3 | 0-1 | Product Class Override Indicator |
| p0158\_9 | | string | 1 | 0-1 | Corporate Incentive Rates Apply Indicator |
| p0158\_10 | | string | 1 | 0-1 | ATM Special Conditions Indicator |
| p0159\_1 | | string | 11 | 0-1 | Settlement Service Transfer Agent ID Code |
| p0159\_2 | | string | 28 | 0-1 | Settlement Service Transfer Agent Account |
| p0159\_3 | | int | 1 | 0-1 | Settlement Service Level Code |
| p0159\_4 | | string | 10 | 0-1 | Settlement Service ID Code |
| p0159\_5 | | string | 1 | 0-1 | Settlement Foreign Exchange Rate Class Code |
| p0159\_6 | | date |  | 0-1 | Reconciliation Date |
| p0159\_7 | | int | 2 | 0-1 | Reconciliation Cycle |
| p0159\_8 | | date |  | 0-1 | Settlement Date |
| p0159\_9 | | int | 2 | 0-1 | Settlement Cycle |
| p0165 | | string | 30 | 0-1 | Settlement Indicator |
| p0176 | | string | 6 | 0-1 | MasterCard Assigned ID |
| p0208\_1 | | string | 11 | 0-1 | Payment Facilitator ID |
| p0208\_2 | | string | 15 | 0-1 | Sub-Merchant ID |
| p0209 | | string | 11 | 0-1 | Independent Sales Organization ID |
| p0228 | | int | 1 | 0-1 | Retrieval Document Code |
| p0230 | | int | 1 | 0-1 | Fulfillment Document Code |
| p0241 | | string | 7 | 0-1 | MasterCom Control Number |
| p0243 | | string | 38 | 0-1 | MasterCom Retrieval Response Data |
| p0244 | | string | 12 | 0-1 | MasterCom Chargeback Support Documentation Dates |
| p0260 | | string | 4 | 0-1 | Edit Exclusion Indicator |
| p0261 | | long | 11 | 0-1 | Risk Management Approval Code |
| p0262 | | int | 1 | 0-1 | Documentation Indicator |
| p0264 | | int | 4 | 0-1 | Original Retrieval Reason for Request |
| p0265 | | string | 110 | 0-1 | Initial Presentment/Fee Collection Data |
| p0266 | | string | 127 | 0-1 | First Chargeback/Fee Collection Return Data |
| p0267 | | string | 127 | 0-1 | Second Presentment/Fee Collection Resubmission Data |
| p0268\_1 | | long | 12 | 0-1 | Amount, Partial Transaction |
| p0268\_2 | | string | 3 | 0-1 | Currency Code, Partial Transaction |
| p0375 | | string | 50 | 0-1 | Member Reconciliation Indicator |
| emv\_9f26 | | string | 16 | 0-1 | Application Cryptogram. Cryptogram returned by the ICC in response of the GENERATE AC command |
| emv\_9f02 | | long | 12 | 0-1 | Amount, Authorised. Authorised amount of the transaction (excluding adjustments) |
| emv\_9f27 | | string | 2 | 0-1 | Cryptogram Information Data. Indicates the type of cryptogram and the actions to be performed by the terminal |
| emv\_9f10 | | string | 64 | 0-1 | Issuer Application Data. Contains proprietary application data for transmission to the issuer in an online transaction |
| emv\_9f36 | | string | 4 | 0-1 | Application Transaction Counter (ATC) |
| emv\_95 | | string | 10 | 0-1 | Terminal Verification Results. Status of the different functions as seen from the terminal |
| emv\_82 | | string | 4 | 0-1 | Application Interchange Profile. Indicates the capabilities of the card to support specific functions in the application |
| emv\_9a | | date |  | 0-1 | Transaction Date. Local date that the transaction was authorised |
| emv\_9c | | int | 2 | 0-1 | Transaction Type. Indicates the type of financial transaction, represented by the first two digits of ISO 8583:1987 Processing Code |
| emv\_9f37 | | string | 8 | 0-1 | Unpredictable Number. Value to provide variability and uniqueness to the generation of a cryptogram |
| emv\_5f2a | | int | 3 | 0-1 | Transaction Currency Code. Indicates the currency code of the transaction according to ISO 4217 |
| emv\_9f33 | | string | 6 | 0-1 | Terminal Capabilities. Indicates the card data input, CVM, and security capabilities of the terminal |
| emv\_9f34 | | string | 6 | 0-1 | CVM Results. Indicates the results of the last CVM performed |
| emv\_9f1a | | int | 3 | 0-1 | Terminal Country Code. Indicates the country of the terminal, represented according to ISO 3166 |
| emv\_9f35 | | int | 2 | 0-1 | Terminal Type. Indicates the environment of the terminal, its communications capability, and its operational control |
| emv\_9f53 | | string | 2 | 0-1 | Transaction Category Code |
| emv\_84 | | string | 32 | 0-1 | Dedicated File (DF) Name. Identifies the name of the DF as described in ISO/IEC 7816-4 |
| emv\_9f09 | | string | 4 | 0-1 | Application Version Number. Version number assigned by the payment system for the application |
| emv\_9f03 | | int | 4 | 0-1 | Amount, Other (Numeric). Secondary amount associated with the transaction representing a cashback amount |
| emv\_9f1e | | string | 16 | 0-1 | Interface Device (IFD) Serial Number. Unique and permanent serial number assigned to the IFD by the manufacturer |
| emv\_9f41 | | int | 8 | 0-1 | Transaction Sequence Counter. Counter maintained by the terminal that is incremented by one for each transaction |
| p0042 | | string | 1 | 0-1 | Merchant Capability |
| p0158\_11 | | string | 1 | 0-1 | MasterCard Assigned ID Override Indicator |
| p0158\_12 | | string | 1 | 0-1 | Account Level Management Account Category Code |
| p0158\_13 | | string | 1 | 0-1 | Rate Indicator |
| p0158\_14 | | string | 1 | 0-1 | Merchant Capability |
| p0198 | | string | 2 | 0-1 | Device Type |
| p0200\_1 | | date |  | 0-1 |  |
| p0200\_2 | | Number | 22 | 0-1 |  |
| p0210\_1 | | string | 2 | 0-1 | Transit Transaction Type Indicator |
| p0210\_2 | | string | 2 | 0-1 | Transportation Mode Indicator |
| p0302 | | string | 1 | 0-1 | Reconciled, Member Activity |
| p0368 | | String | 2 | 0-1 | Reconciled, Transaction Function Group Code |
| p0505 | | String | 992 | 0-1 | Passenger Name |
| p0506 | | String | 992 | 0-1 | Ticket Number |
| p0508 | | String | 992 | 0-1 | Customer Code |
| p0520 | | String | 992 | 0-1 | Travel Date (format YYMMDD) |
| p0521 | | String | 992 | 0-1 | Carrier Code |
| p0523 | | String | 992 | 0-1 | Service Class Code |
| p0524 | | String | 992 | 0-1 | City of Destination/Airport Code |
| p0544 | | String | 992 | 0-1 | Rental Agreement Number |
| p0545 | | String | 992 | 0-1 | Renter Name |
| p0546 | | String | 992 | 0-1 | Rental Return City |
| p0550 | | String | 992 | 0-1 | Rental Return Date |
| p0551 | | String | 992 | 0-1 | Rental Check-Out Date |
| p0568 | | String | 992 | 0-1 | Rental Class ID |
| p0574 | | String | 992 | 0-1 | Arrival Date (format YYMMDD) |
| p0575 | | String | 992 | 0-1 | Departure Date (format YYMMDD) |
| p0576 | | String | 992 | 0-1 | Folio Number |
| p0596 | | String | 992 | 0-1 | Card Acceptor Tax ID |
| p0597 | | String | 992 | 0-1 | Total Tax Amount |
| p0600 | | String | 992 | 0-1 | Card Acceptor Reference Number |
| p0620 | | String | 992 | 0-1 | Oil Company Brand Name |
| p0623 | | String | 992 | 0-1 | Motor Fuel Information |
| p0629 | | String | 992 | 0-1 | Odometer Reading |
| p0630 | | String | 992 | 0-1 | Vehicle Number |
| p0631 | | String | 992 | 0-1 | Driver Number/ID Number |
| p0632 | | String | 992 | 0-1 | Product Type Code |
| p0641 | | String | 992 | 0-1 | Product Code |
| p0642 | | String | 992 | 0-1 | Item Description |
| p0643 | | String | 992 | 0-1 | Item Quantity |
| p0646 | | String | 992 | 0-1 | Unit Price |
| p0648 | | String | 992 | 0-1 | Item Discount |
| p0664 | | String | 992 | 0-1 | Start Station |
| p0665 | | String | 992 | 0-1 | Destination Station |
| p0682 | | String | 992 | 0-1 | Detail Tax Amount 1 |
| p0757 | | String | 992 | 0-1 | Transportation Service Provider |
| baseII\_data | | | | | |
| is\_reversal | | int | 1 | 0-1 | Reversal flag. |
| is\_incoming | | int | 1 | 0-1 | Incoming/Outgouing message flag. 1- incoming, 0- outgoing. |
| is\_returned | | int | 1 | 0-1 | Rejected message flag. |
| is\_invalid | | int | 1 | 0-1 | Is financial message loaded with errors. |
| rrn | | string | 12 | 0-1 | Retrieval reference number. |
| trans\_code | | string | 2 | 0-1 | VISA transaction code. |
| trans\_code\_qualifier | | string | 1 | 0-1 | Transaction code qualifier. |
| card\_mask | | string | 24 | 0-1 | Masked card number |
| oper\_amount | | long | 22 | 0-1 | Source Amount. |
| oper\_currency | | string | 3 | 0-1 | Source Currency Code. |
| oper\_date | | date |  | 0-1 | Purchase Date. |
| sttl\_amount | | long | 22 | 0-1 | Destination Amount. |
| sttl\_currency | | string | 3 | 0-1 | Destination currency code. |
| network\_amount | | long | 22 | 0-1 | Amount in network settlement currency. |
| network\_currency | | string | 3 | 0-1 | Network settlement currency. |
| floor\_limit\_ind | | string | 1 | 0-1 | Floor limit indicator. |
| exept\_file\_ind | | string | 1 | 0-1 | CRB/Exception file indicator. |
| pcas\_ind | | string | 1 | 0-1 | Positive Cardholder Authorization Service (PCAS) indicator. |
| arn | | string | 23 | 0-1 | Acquiring reference number. |
| acquirer\_bin | | string | 12 | 0-1 | Acquirer Bank Identification Number. |
| acq\_business\_id | | string | 8 | 0-1 | Acquirer business identifier. |
| merchant\_name | | string | 25 | 0-1 | Merchant name. |
| merchant\_city | | string | 13 | 0-1 | Merchant city. |
| merchant\_country | | string | 3 | 0-1 | Merchant country code (3 digits ISO code). |
| merchant\_postal\_code | | string | 10 | 0-1 | Merchant postal code. |
| merchant\_region | | string | 3 | 0-1 | Merchant region code. |
| merchant\_street | | string | 200 | 0-1 | Merchant Street. |
| mcc | | string | 4 | 0-1 | Merchant category code. |
| req\_pay\_service | | string | 8 | 0-1 | Requested payment service. |
| usage\_code | | string | 1 | 0-1 | Usage code. |
| reason\_code | | string | 2 | 0-1 | Reason code. |
| settlement\_flag | | string | 1 | 0-1 | Settlement flag. |
| auth\_char\_ind | | string | 1 | 0-1 | Authorization characteristics indicator. |
| auth\_code | | string | 6 | 0-1 | Authorization code. |
| pos\_terminal\_cap | | string | 1 | 0-1 | POS terminal capability. |
| inter\_fee\_ind | | string | 1 | 0-1 | International fee indicator. |
| crdh\_id\_method | | string | 1 | 0-1 | Cardholder ID method. |
| collect\_only\_flag | | string | 1 | 0-1 | Collection-only flag. |
| pos\_entry\_mode | | string | 2 | 0-1 | POS entry mode. |
| central\_proc\_date | | string | 4 | 0-1 | Central processing date (YDDD). |
| reimburst\_attr | | string | 1 | 0-1 | Reimbursement attribute. |
| iss\_workst\_bin | | string | 6 | 0-1 | Issuer workstation BIN. |
| acq\_workst\_bin | | string | 6 | 0-1 | Acquirer workstation BIN. |
| chargeback\_ref\_num | | string | 6 | 0-1 | Chargeback reference number. |
| docum\_ind | | string | 1 | 0-1 | Documentation indicator. |
| member\_msg\_text | | string | 50 | 0-1 | Member message text. |
| spec\_cond\_ind | | string | 2 | 0-1 | Special condition indicators. |
| fee\_program\_ind | | string | 3 | 0-1 | Fee program indicator. |
| issuer\_charge | | string | 1 | 0-1 | Issuer charge. |
| merchant\_number | | string | 15 | 0-1 | Card Acceptor ID (Merchant ISO number). |
| terminal\_number | | string | 8 | 0-1 | Terminal ISO ID. |
| national\_reimb\_fee | | string | 12 | 0-1 | National reimbursement fee. |
| electr\_comm\_ind | | string | 1 | 0-1 | Mail/Telephone or Electronic commerce Indicator. |
| spec\_chargeback\_ind | | string | 1 | 0-1 | Special chargeback indicator. |
| interface\_trace\_num | | string | 6 | 0-1 | Interface trace number. |
| unatt\_accept\_term\_ind | | string | 1 | 0-1 | Unattended acceptance terminal indicator. |
| prepaid\_card\_ind | | string | 1 | 0-1 | Prepaid card indicator. |
| service\_development | | string | 1 | 0-1 | Service development field. |
| avs\_resp\_code | | string | 1 | 0-1 | AVS response code. |
| auth\_source\_code | | string | 1 | 0-1 | Authorization source code. |
| purch\_id\_format | | string | 1 | 0-1 | Purchase identifier format. |
| account\_selection | | string | 1 | 0-1 | Account selection. |
| installment\_pay\_count | | string | 2 | 0-1 | Installment payment count. |
| purch\_id | | string | 25 | 0-1 | Purchase identifier. |
| cashback | | string | 9 | 0-1 | Cashback. |
| chip\_cond\_code | | string | 1 | 0-1 | Chip condition code. |
| pos\_environment | | string | 1 | 0-1 | POS environment. |
| transaction\_type | | string | 2 | 0-1 | Transaction Type. |
| card\_seq\_number | | string | 3 | 0-1 | Card sequence number. |
| terminal\_profile | | string | 6 | 0-1 | Terminal capability profile. |
| unpredict\_number | | string | 8 | 0-1 | Unpredictable number. |
| appl\_trans\_counter | | string | 4 | 0-1 | Application transaction counter. |
| appl\_interch\_profile | | string | 4 | 0-1 | Application interchange profile. |
| cryptogram | | string | 16 | 0-1 | Cryptogram. |
| term\_verif\_result | | string | 10 | 0-1 | Terminal verification results. |
| cryptogram\_amount | | string | 12 | 0-1 | Cryptogram amount. |
| card\_verif\_result | | string | 8 | 0-1 | Card verification results. Dictionary CVRE |
| issuer\_appl\_data | | string | 64 | 0-1 | Issuer application data. |
| issuer\_script\_result | | string | 10 | 0-1 | Issuer script 1 results. |
| card\_expir\_date | | string | 4 | 0-1 | Card expiration date. (YYMM) |
| cryptogram\_version | | string | 2 | 0-1 | Cryptogram version. |
| cvv2\_result\_code | | string | 1 | 0-1 | CVV2 result code. |
| auth\_resp\_code | | string | 2 | 0-1 | Authorization response code. |
| cryptogram\_info\_data | | string | 2 | 0-1 | Cryptogram Information Data. |
| transaction\_id | | string | 15 | 0-1 | Network Transaction Identifier |
| merchant\_verif\_value | | string | 10 | 0-1 | Merchant Verification Value |
| proc\_bin | | string | 6 | 0-1 | Processing BIN |
| chargeback\_reason\_code | | string | 4 | 0-1 | Chargeback Reason Code |
| destination\_channel | | string | 1 | 0-1 | Destination Channel |
| source\_channel | | string | 1 | 0-1 | Source Channel |
| acq\_inst\_bin | | string | 12 | 0-1 | Acquirer institution BIN |
| spend\_qualified\_ind | | string | 1 | 0-1 | Spend Qualified Indicator. |
| service\_code | | string | 3 | 0-1 | Service code |
| product\_id | | string | 2 | 0-1 | Visa product id |
| sttl\_service | | string | 3 | 0-1 | Settlement service identifier |
| sre\_id | | string | 10 | 0-1 | Reporting For SRE Identifier. This is the identifier for the SRE being reported upon |
| up\_sre\_id | | string | 10 | 0-1 | ID of the SRE which is directly superior to the Reporting For SRE in the settlement hierarchy. |
| jurisdict | | string | 8 | 0-1 | Jurisdiction Code |
| routing | | string | 1 | 0-1 | Inter - regional Routing Indicator. Y or N. |
| src\_region | | string | 2 | 0-1 | Source Region Code |
| dst\_region | | string | 2 | 0-1 | Destination Region Code |
| src\_country | | string | 3 | 0-1 | Source Country Code |
| dst\_country | | string | 3 | 0-1 | Destination Country Code |
| bus\_tr\_type | | string | 2 | 0-1 | Business Transaction Type |
| first\_count | | int | 15 | 0-1 | First Count |
| additional\_amount | | | | | |
| amount\_value | | long | 22 | 1-1 | Additional amount’s value |
| currency | | string | 3 | 1-1 | Additional amount’s currency code |
| amount\_type | | string | 8 | 1-1 | Amount’s type, it is a dictionary article (dictionaries AMPR, FETP, BLTP, LMTP, etc.) |
| processing\_stage | | | | | |
| proc\_stage | | string | 200 | 1-1 | Processing stage, an article of dictionary PSTG |
| status | | string | 200 | 1-1 | Operation status, an article of dictionary OPST |
| flexible\_data | | | | | |
| field\_name | | string | 200 | 1-1 | Flexible field name |
| field\_value | | string | 200 | 1-1 | Flexible field value |

* + 1. CLEARING

It is the root tag of the clearing file. It contains a set of financial operations.

FILE\_ID

The unique identifier of the file generated in the SmartVista. It makes sense only in the outgoing files from SmartVista.

FILE\_TYPE

Determines what type of file data in the file. The same type of file can define a set of mandatory fields (for different types of it can vary) and the corresponding loader for him.

|  |  |
| --- | --- |
| Code | Description |
| FLTP1700 | Operations for loading |
| FLTP1710 | Operations for unloading |

ORIGINAL\_FILE\_ID

Reference to the original file if the file is downloaded in response to the previously discharged and there is a need to establish a communication between them.

START\_DATE

Date of beginning of the period which includes transactions presented in the file. The date include the date and time.

END\_DATE

End of the period which includes transactions presented in the file. The date include the date and time.

INST\_ID

Institution identifier (participant of the processing), which own operations in the file.

* + 1. OPERATION

Tag contains general information about the operation and combines the financial data of all transactions.

OPER\_ID

Unique identifier of operation.

OPER\_TYPE

Type of operation. Determines the purpose and method of processing the operation.

| Code | Description |
| --- | --- |
| OPTP0000 | Purchase |
| OPTP0001 | ATM Cash withdrawal |
| OPTP0009 | Purchase with casback |
| OPTP0010 | P2P Debit |
| OPTP0011 | P2P |
| OPTP0012 | POS Cash advance |
| OPTP0018 | Unique Transaction (Quasi Cash) |
| OPTP0019 | Fee collection (credit to originator) |
| OPTP0020 | Purchase return (Credit) |
| OPTP0022 | Cash-In |
| OPTP0026 | P2P Credit |
| OPTP0027 | Payment notification |
| OPTP0028 | Payment transaction |
| OPTP0029 | Fee collection (debit to originator) |
| OPTP0030 | Balance inquiry |
| OPTP0031 | Customer inquiry |
| OPTP0032 | Customer check |
| OPTP0038 | Statement request |
| OPTP0039 | Mini statement request |
| OPTP0040 | Customer account funds transfer |
| OPTP0041 | Internal account funds transfer |
| OPTP0042 | Foreign account funds transfer |
| OPTP0043 | Funds transfer credit |
| OPTP0060 | Service provider payment |
| OPTP0070 | PIN Change |
| OPTP0071 | PIN unblock |
| OPTP0119 | Issuer fee |
| OPTP0171 | Change card status |
| OPTP0172 | Change account status |
| OPTP0173 | Attach service |
| OPTP0174 | Detach service |
| OPTP0219 | Acquirer fee |
| OPTP0244 | Currency exchange |
| OPTP0250 | Settlement totals of the terminal |
| OPTP0251 | Clerk totals of the terminal |
| OPTP0252 | Change terminal status |
| OPTP0253 | Change merchant status |
| OPTP0319 | Institution fee |
| OPTP0400 | Debit account |
| OPTP0401 | Set account balance |
| OPTP0402 | Account debit adjustment |
| OPTP0403 | Set entity limit |
| OPTP0412 | Cash withdrawal from account |
| OPTP0422 | Account credit adjustment |
| OPTP0428 | Credit account |
| OPTP0432 | Counterparty account debit adjustment |
| OPTP0690 | Create virtual card |
| OPTP0801 | ATM cassettes setup 1 |
| OPTP0802 | ATM cassettes setup 2 |
| OPTP0803 | ATM settlement |
| OPTP0804 | ATM reset |
| OPTP0805 | ATM receipts setup |
| OPTP0806 | ATM cash adjustment |
| OPTP1001 | Providing credit limit |
| OPTP1100 | Loyalty points purchase |
| OPTP1102 | Manual loyalty points redemption |
| OPTP1122 | Manual loyalty points enrollment |
| OPTP1128 | Loyalty points earning |
| OPTP1500 | DPP purchase |
| OPTP1501 | DPP registration |

MSG\_TYPE

Financial message type.

| Code | Description |
| --- | --- |
| MSGTACBK | Arbitration chargeback |
| MSGTAUTH | Authorization |
| MSGTBTCH | Batch upload |
| MSGTCHBK | Chargeback |
| MSGTCMPL | Authorization completion |
| MSGTFPST | Forced post |
| MSGTPRES | Presentment |
| MSGTPREU | Preauthorization |
| MSGTREPR | Representment |
| MSGTRLBK | Rollback |
| MSGTRTRQ | Retrieval request |
| MSGTSCDL | Authorization schedule registration |
| MSGTSPLT | Split |
| MSGTSTAT | Authorization status |
| MSGTVALD | Authorization validation |

STTL\_TYPE

Type of settlement depends on the accessory to the participants involved in the operation processing. Value based on dictionary STTT.

**RECONCILIATION\_TYPE**

Type reconciliation of operation. If element absent used value RCLMNONE.

| Code | Description |
| --- | --- |
| RCLMFULL | Full |
| RCLMNONE | None |

OPER\_DATE

Date of the transaction by the client. The date of the transaction by the client.

HOST\_DATE

Date of transaction processing in the system. The date of creating operations in SV2.

**OPER\_COUNT**

Operations count. If the value oper\_count is null, the default value will be set 1. In some cases, it may come as batch of operations as one record. Count of operation is used to set limit of count and calculate fees.

OPER\_AMOUNT

Original amount of operation.

AMOUNT\_VALUE

The value of the amount in minimum denominations of currency.

CURRENCY

The currency of the transaction amount. Numeric ISO currency code.

ORIGINATOR\_REFNUM

A unique identifier generated by the initiator of the transaction.

NETWORK\_REFNUM

The unique identifier of the operation generated by network which exterior to the SmartVista.

ACQ\_INST\_BIN

The ID of the acquiring institution in acquiring network.

RESPONSE\_CODE

Response code returned as the result of processing the transaction.

| Code | Description |
| --- | --- |
| RESP0000 | Undefined |
| RESP0001 | Successful authorization |
| RESP0002 | Common error, unsuccessful response code |
| RESP0003 | Timeout waiting for issuer response |
| RESP0004 | Issuer is unavailable |
| RESP0005 | Failed to obtain acquirer BIN |
| RESP0006 | Cannot obtain card issuer information |
| RESP0007 | Cannot obtain authorization scenario for operation |
| RESP0008 | No original operation for reversal |
| RESP0009 | Reversal is duplicated |
| RESP0010 | Reversal does not match with original |
| RESP0011 | No connection between host and external system |
| RESP0012 | Invalid terminal state to perform operation |
| RESP0013 | Unexpected timeout occured |
| RESP0014 | Unable to map settlement type |
| RESP0015 | No processing rules |
| RESP0016 | Card not found |
| RESP0017 | Unknown card status |
| RESP0018 | Invalid card status |
| RESP0019 | Wrong service code |
| RESP0020 | PIN attempts exceeded |
| RESP0021 | Insufficient funds |
| RESP0022 | Limit exceeded |
| RESP0023 | Can’t get account |
| RESP0024 | Can’t get amount |
| RESP0025 | Invalid PIN |
| RESP0026 | Invalid PIN block |
| RESP0027 | Invalid key |
| RESP0028 | Card not activated |
| RESP0029 | Invalid CVV |
| RESP0030 | Invalid ARQC |
| RESP0031 | Invalid CVV2 |
| RESP0032 | Service not allowed |
| RESP0033 | Invalid address verification data |
| RESP0034 | Account not found |
| RESP0035 | Can’t find customer |
| RESP0036 | Stolen card |
| RESP0037 | Expired card |
| RESP0038 | Account restricted |
| RESP0039 | Payment channel not available. |
| RESP0040 | Can’t find terminal |
| RESP0041 | Cancelation not allowed |
| RESP0042 | Limit exceeded on receiving side |
| RESP0043 | Call issuer (refer to card issuer) |
| RESP0044 | Do not honor |
| RESP0045 | Honor with ID |
| RESP0046 | Lost card |
| RESP0047 | Invalid destination account |
| RESP0048 | Capture card |
| RESP0049 | Customer cancellation |
| RESP0050 | Invalid amount |
| RESP0051 | Preauthorization not found |
| RESP0052 | Completion timeout exceeded |
| RESP0053 | Preauthorization failed |
| RESP0054 | Preauthorization canceled |
| RESP0055 | Illegal sum of completion |
| RESP0056 | Completion is dublicated |
| RESP0057 | Invalid track |
| RESP0058 | Invalid request |
| RESP0059 | PIN Not Changed |
| RESP0060 | Unacceptable PIN transaction |
| RESP0061 | Format error |
| RESP0062 | Not declined |
| RESP0063 | Partial approval |
| RESP0064 | Suspected Fraud |
| RESP0065 | Invalid merchant |
| RESP0067 | The request was rejected |
| RESP0068 | Invalid CVC3 |
| RESP0069 | Invalid dCVV |
| RESP0070 | Invalid AAV |
| RESP0071 | Invalid CAVV |

OPER\_REASON

Operation reason (fee type or adjustment type). It’s a dictionary article. These dictionaries should be used here: ADJR, PMRS, BLTP, LMTP.

Payment reason (PMRS dictionary).

| Code | Description |
| --- | --- |
| MADP | MAD payment |

Balance type (BLTP dictionary).

| Code | Description |
| --- | --- |
| 0001 | Ledger |
| 0002 | Hold |
| 0003 | Fees |
| 0004 | Disput |
| 0005 | Frozen |
| 0006 | Stand-IN |
| 1001 | Assigned exceed limit |
| 1002 | Overdraft |
| 1003 | Interest |
| 1004 | Overdue |
| 1005 | Overdue interest |
| 1006 | Penalty |
| 1007 | Overlimit |
| 1008 | Interest on overlimit |
| 1009 | Write-off |
| 1010 | Deposit |
| 1011 | Interest on arrears |
| 1012 | Unused exceed limit |
| 1013 | Used exceed limit |

Limit types (LMTP dictionary).

| Code | Description |
| --- | --- |
| 0100 | Cash withdrawal limit |
| 0101 | Wrong PIN entry counter/limit |
| 0102 | Card usage limit |
| 0103 | Card usage periodic limit |
| 0104 | Total expense limit on contract |
| 0105 | Total avalable balance limit |
| 0106 | Card spend month limit |
| 0107 | Card cash withdrawal day limit |
| 0108 | Card cash withdrawal month limit |
| 0109 | Card purchase day limit |
| 0110 | Card purchase month limit |
| 0111 | Card MOTO/E-commerce operation day limit |
| 0112 | Card MOTO/E-commerce operation month limit |
| 0113 | Card spend on-us day limit |
| 0114 | Card spend on-us month limit |
| 0115 | Card cash withdrawal on-us day limit |
| 0116 | Card cash withdrawal on-us month limit |
| 0117 | Card purchase on-us day limit |
| 0118 | Card purchase on-us month limit |
| 0119 | Card MOTO/E-commerce operation on-us day limit |
| 0120 | Card MOTO/E-commerce operation on-us month limit |
| 0121 | Card spend on-them day limit |
| 0122 | Card spend on-them month limit |
| 0123 | Card cash withdrawal on-them day limit |
| 0124 | Card cash withdrawal on-them month limit |
| 0125 | Card purchase on-them day limit |
| 0126 | Card purchase on-them month limit |
| 0127 | Card MOTO/E-commerce operation on-them day limit |
| 0128 | Card MOTO/E-commerce operation on-them month limit |
| 0129 | Card spend day limit |
| 0130 | Limit for cashback amount on us |
| 0131 | Card spending credit limit value |
| 0135 | Limit for cashback amount on domestic |
| 0136 | Limit for cashback amount on them |
| 0137 | Limit for cashback amount on partner |
| 0200 | Limit for Merchant service charge |
| 0201 | One time cash withdrawal with other cards limit |
| 0300 | Total top up account limit |
| 0301 | Total expense limit |
| 0302 | Cash withdrawal cyclic limit |
| 0303 | Debit account cyclic limit |
| 0304 | Credit account cyclic limit |
| 0305 | Cash IN account cyclic limit |
| 0306 | One-time expense limit |
| 0307 | One-time top up account limit |
| 0308 | Limit for Account maintenance fee |
| 0309 | Account total expense day limit |
| 0310 | Account total expense month limit |
| 1101 | Limit for Loyalty points rate |

STATUS

Authorization status (OPST dictionary).

| Code | Description |
| --- | --- |
| OPST0001 | Online incomplete |
| OPST0100 | Ready to process |
| OPST0101 | Does not require processing |
| OPST0102 | Frozen for manual processing |
| OPST0107 | Merged |
| OPST0110 | Waits for clearing upload |
| OPST0120 | Waits for settlement confirmation |
| OPST0130 | Waits activation |
| OPST0200 | Wrong data |
| OPST0300 | Corrected |
| OPST0400 | Processed |
| OPST0401 | Presentment processed |
| OPST0402 | Unholded |
| OPST0403 | Authorized |
| OPST0404 | Processed without entries |
| OPST0500 | Processing error |
| OPST0501 | Unsuccessful authorization |
| OPST0600 | No rules selected |
| OPST0800 | Processed, awaits unhold |
| OPST0850 | Processed, partial unholded |

STATUS\_REASON

Reason of status. Dictionary value (OPSR dictionary).

| Code | Description |
| --- | --- |
| OPSR0500 | Limit has been exceeded |
| OPSR0501 | Limit of recipient has been exceeded |
| OPSR0502 | Cannot be selected account |
| OPSR0503 | Insufficient funds |

IS\_REVERSAL

Reversal flag of an operation:

0 – operation is not reversal;

1 – operation is reversal.

MERCHANT\_NUMBER

Merchant number received from payment network.

MCC

Merchant Category Code.

MERCHANT\_NAME

Merchant name registered in payment network.

MERCHANT\_STREET

Merchant street.

MERCHANT\_CITY

Merchant city.

MERCHANT\_REGION

Merchant region – two or three character code.

MERCHANT\_COUNTRY

Merchant country. Numeric ISO country code.

MERCHANT\_POSTCODE

Merchant postal code.

TERMINAL\_TYPE

Terminal type.

| Code | Description |
| --- | --- |
| TRMT0001 | Imprinter |
| TRMT0002 | ATM |
| TRMT0003 | POS |
| TRMT0004 | ePOS |
| TRMT0005 | Mobile |
| TRMT0006 | Internet |
| TRMT0007 | Mobile POS |

TERMINAL\_NUMBER

Terminal number.

**RISK\_INDICATOR**

Merchant risk indicator value has values from FMRI dictionary.

**MATCH\_STATUS**

Operation matching status

**STTL\_DATE**

Operation settlement date

**ACQ\_STTL\_DATE**

Operation settlement date on the acquirer side - for them-on-them operations in switching solutions.

**MATCH\_ID**

Link between authorizations and presentment. Used for matching of Authorization and Presentment for US-ON-THEM.

* + 1. PARTICIPANT

Participant of operation.

PARTICIPANT\_TYPE

Type of participating party. Mandatory for custom participants.

| Code | Description |
| --- | --- |
| PRTYACQ | Acquirer |
| PRTYISS | Issuer |
| PRTYDST | Recipient of funds |
| PRTYPAGR | Payment aggregator |
| PRTYSRVP | Payment service provider |
| PRTYINST | Institution (Bank) |
| PRTYLTY | Loyalty accounting |

CLIENT\_ID\_TYPE

A method for identifying a client when processing the transaction.

| Code | Description |
| --- | --- |
| CITPACCT | Identification by account |
| CITPCARD | Identification by card number (PAN) |
| CITPCDID | Identification by card’s internal identifier |
| CITPCASH | No identification, but cash is present |
| CITPCMCH | Identification by card mask and card holder pair |
| CITPCMPH | Identification by card mask and mobile phone number pair |
| CITPCNTR | Identification by contract number |
| CITPCUST | Identification by customer number |
| CITPEMAI | Identification by e-mail |
| CITPMBPH | Identification by mobile phone number |
| CITPMRCT | Identification by merchant number |
| CITPNONE | No identification |
| CITPSRVP | Identification by service provider number |
| CITPTRMN | Identification by terminal number |
| CITPUNKN | Unknown identification |
| CITPXCRD | Identification by linked card |

CLIENT\_ID\_VALUE

The ID of the client in accordance with the type of identification: the account number, card number, mobile phone number, etc.

CARD\_NUMBER

Card number used in operation.

CARD\_SEQ\_NUMBER

The sequence number for the plastic card number.

CARD\_EXPIR\_DATE

Card expiration date.

INST\_ID

Identifier of institution which owns the customer participated in operation.

NETWORK\_ID

Identifier of the network which is related with the participant.

AUTH\_CODE

The authorization code received by participants as a result of the successful operation processing.

ACCOUNT\_NUMBER

Participating party account number.

ACCOUNT\_AMOUNT

Part of operation amount that affects participant.

ACCOUNT\_CURRENCY

Currency of participant account.

* + 1. PAYMENT\_ORDER

Payment order for the client, on the basis of which the financial transaction was created.

PAYMENT\_ORDER\_ID

Payment order identifier.

PAYMENT\_ORDER\_STATUS

Payment order status.

| Code | Description |
| --- | --- |
| POSA0001 | Awaiting processing |
| POSA0002 | Awaiting confirmation |
| POSA0010 | Processed |
| POSA0020 | Canceled |
| POSA0100 | Preparation |

PAYMENT\_PARAMETER

Contains the data of one props payment order.

PAYMENT\_PARAMETER\_NAME

Property name.

PAYMENT\_PARAMETER\_VALUE

Property value.

* + 1. TRANSACTION

Transaction posted on the accounts in the processing of financial operation. The transaction contains one or two entries.

TRANSACTION\_ID

Transaction unique identifier.

TRANSACTION\_TYPE

Type of transaction that describes the purpose of the transaction and defines a set of accounts and the type to which it is applied.

| Code | Description |
| --- | --- |
| TRNT0101 | Settlements with the client in a transaction |
| TRNT0102 | Fee from a client in a transaction |
| TRNT0103 | Backup client account |
| TRNT0104 | Cancellation of payments to a client in a transaction |
| TRNT0105 | Cancellation fees of the client in a transaction |
| TRNT0106 | Cancel a reservation of the client's account |
| TRNT0107 | CBS top up |
| TRNT0108 | CBS write-off |
| TRNT0201 | Settlements with the merchant in a transaction |
| TRNT0202 | Fee from a merchant in a transaction |
| TRNT0203 | Cancellation of payments to a merchant in a transaction |
| TRNT0204 | Cancellation fees of the merchant in a transaction |
| TRNT0401 | Adjustment |
| TRNT1001 | Providing Exceed Limit |
| TRNT1002 | Overdraft |
| TRNT1003 | Interest |
| TRNT1004 | Overdue |
| TRNT1005 | Interest Overdue |
| TRNT1007 | Overlimit |
| TRNT1050 | Payment reserve |
| TRNT1051 | Transfer overpayment to own funds |
| TRNT1052 | Overdraft repayment |
| TRNT1053 | Interest repayment |
| TRNT1054 | Overdue repayment |
| TRNT1055 | Interest Overdue repayment |
| TRNT1057 | Overlimit repayment |

POSTING\_DATE

Transaction posting date.

* + 1. ENTRY

Entry is a component part of a transaction and describes one of its sides debit or credit.

ACCOUNT

Account for entry posting.

ACCOUNT\_NUMBER

Account number.

AMOUNT

The amount drawn on the account in the current entry.

AMOUNT\_VALUE

The value of the amount in minimum denominations of currency.

CURRENCY

The currency of the amount. Numeric ISO currency code.

* + 1. DOCUMENT

Bank document associated with any entity: operation, transaction, or payment order.

DOCUMENT\_ID

Unique identifier of document.

DOCUMENT\_TYPE

Type of document. Describes the purpose of the document and determine its structure. The standard set of value is not defined. The code dictionary DCMT.

| Code | Description |
| --- | --- |
| DCMT0001 | Scanned image |
| DCMT0002 | Report |

DOCUMENT\_NUMBER

The document number. Must be unique within the document type and date of creation.

DOCUMENT\_DATE

Created document.

CONTENT

Structured document content. Contains a single functional part of the document.

CONTENT\_TYPE

The content type of the document.

|  |  |
| --- | --- |
| Code | Description |
| DCCT0010 | Printable form |

DOCUMENT\_CONTENT

The contents of the document in a certain format, for example, XML, encoded in BASE64.

* + 1. ADDITIONAL AMOUNT

It contains data about additional amounts that are linked with an operation.

AMOUNT\_VALUE

An additional amount of an operation.

CURRENCY

A currency code of an additional amount (numeric ISO currency code).

AMOUNT\_TYPE

A dictionary article of some dictionary that contains amount types.

1. ACCOUNTS AND CUSTOMERS INTERFACE FILE STRUCTURE
   1. Overview

The file is intended for off-line synchronization of customer data and accounts with external (non-card) systems in cases where SmartVista is the main system of the customers and accounts registration. Most often the external system is CBS.

The direction of the file is OUTGOING.

* 1. References

Format of account and customers interface file described by XSD file: svxp\_account.xsd, svxp\_account\_turnover.xsd, svxp\_customer.xsd (please, see document svxp\_migration\_eng.docx, chapter 7 CUSTOMERS FILE STRUCTURE).

Example of xml document:

svxp\_account\_example.xml

svxp\_account\_turnover\_example.xml

svxp\_customer\_example.xml

* 1. List of elements

Depending on information to receive there are two formats the customer’s data can be represented:

account list

customer list

For each of the formats the corresponding root element is used (ACCOUNTS or CUSTOMERS). However, the document structure is very similar and they share common structural elements, so both ways are presented in the document. In the file data are represented in XML document form with the structure described below.

For Accounts:

* + 1. Accounts with balances (acc\_prc\_account\_export\_pkg.process)

| Tag | Type | Size | Occurs | Description |
| --- | --- | --- | --- | --- |
| accounts | | | | |
| file\_id | long | 16 | 0-1 | Output file unique ID. |
| file\_type | string | 8 | 1-1 | Input/output file type. Defines its purpose and way of processing. Dictionary FLTP. |
| file\_date | date |  | 1-1 | File creation date. |
| date\_purpose | string | 8 | 0-1 | Date types presented in the file. Possible values:  DTPR0001 – Calendar system date of processing. |
| inst\_id | int | 4 | 0-1 | Financial institution identifier. |
| account | complex |  | 1-\* | Account data. |
| account | | | | |
| account\_id | long | 12 | 1-1 | Account Identifier. |
| account\_number | string | 200 | 1-1 | Account number. |
| account\_type | string | 8 | 0-1 | Account type. Please refer to ACTP dictionary. |
| account\_status | string | 8 | 0-1 | Account status. Please refer to ACST dictionary. |
| currency | string | 3 | 1-1 | Account currency. |
| customer | complex |  | 0-1 | Customer data. |
| balance | complex |  | 0-\* | Account balances. |
| balance | | | | |
| balance\_type | string | 8 | 1-1 | Balance type. Please refer to BLTP dictionary. |
| balance\_open\_date | date |  | 0-1 | Balance account opening date. |
| balance\_close\_date | date |  | 0-1 | Balance account closure date. |
| customer | | | | |
| customer\_id | long | 12 | 1-1 | Customer id. |
| customer\_number | string | 200 | 1-1 | Customer number. |

* + 1. Accounts with turnovers (acc\_prc\_account\_export\_pkg.process\_unload\_turnover)

| Tag | Type | Size | Occurs | Description |
| --- | --- | --- | --- | --- |
| accounts | | | | |
| file\_id | long | 16 | 0-1 | Output file unique ID. |
| file\_type | string | 8 | 1-1 | Input/output file type. Defines its purpose and way of processing. Dictionary FLTP. |
| start\_date | date |  | 0-1 | Start date of the period the file was converted. |
| end\_date | date |  | 0-1 | End date of the period. |
| date\_purpose | string | 8 | 0-1 | Date types presented in the file. Possible values:  DTPR0001 – Calendar system date of processing. |
| inst\_id | int | 4 | 0-1 | Financial institution identifier. |
| account | complex |  | 1-\* | Account data. |
| account | | | | |
| account\_number | string | 200 | 1-1 | Account number. |
| account\_type | string | 8 | 0-1 | Account type. Please refer to ACTP dictionary. |
| account\_status | string | 8 | 0-1 | Account status. Please refer to ACST dictionary. |
| currency | string | 3 | 1-1 | Account currency. |
| aval\_balance | long | 18 | 1-1 | Available balance of the account. |
| flexible\_field | complex |  | 0-\* | Flexible field block |
| balance | complex |  | 0-\* | Account balances. |
| limits | complex |  | 0-1 | Account limits. |
| balance | | | | |
| balance\_type | string | 8 | 1-1 | Balance type. Please refer to BLTP dictionary. |
| turnover | complex |  | 0-1 | Turnover of balances. |
| turnover | | | | |
| incoming\_balance | long | 18 | 1-1 | Incoming balance |
| debits\_amount | long | 18 | 1-1 | Total amount of debit transactions for period in currency minimal unit (cents, kopeks). |
| debits\_count | long | 18 | 1-1 | Total number of debit transactions on balance account. |
| credits\_amount | long | 18 | 1-1 | Total amount of credit transactions for period in currency minimal unit. |
| credits\_count | long | 18 | 1-1 | Total number of credit transactions on balance account. |
| outgoing\_balance | long | 18 | 1-1 | Output balance amount. |
| flexible\_field | | | | |
| flexible\_field\_name | string | 200 | 1-1 | Unique flexible field name |
| flexible\_field\_value | string | 200 | 1-1 | Flexible field value |
| limits | | | | |
| limit | complex |  | 0-\* | Limit of account. |
| limit | | | | |
| limit\_type | string | 8 | 1-1 | Limit type |
| sum\_limit | long | 18 | 1-1 | Value of sum limit. |
| count\_limit | long | 18 | 1-1 | Value of count limit. |
| sum\_current | long | 18 | 1-1 | Current value of limit. |
| currency | string | 3 | 1-1 | Limit currency. |
| next\_date | date |  | 0-1 | Next cycle date. |
| length\_type | string | 8 | 0-1 | Date calculation unit (Year, Month, Week, Day). |
| cycle\_length | int | 4 | 0-1 | Cycle length in defined units. |
| limit\_usage | string | 8 | 0-1 | Limit usage |

ACCOUNTS

This is a file root element that combines account data upload to external system.

ACCOUNT

The element contains all data of one particular customer’s account.

ADDRESS

The element contains customer post address data. There may be several addresses of different purposes for a customer. An address type defines its purpose.

BALANCE

Balance account is a part of the customer‘s account and defines its financial circumstances, fund on the account. Available account balance is calculated as a sum of all balance accounts with the corresponding sign.

CREDIT

This block contains information about credit on credit account.

CONTACT

The element contains all the customer contact details. There may be several communication methods for a customer. Also a customer can have several contacts. Contact type defines its purpose.

CUSTOMER

The element contains all data of a particular customer.

CUSTOMERS

This is a document root element that contains data about customers to upload to external system.

IDENTITY\_CARD

The element contains the customer declaration of identity. There can be several declarations for a customer.

PERSON

This is a mail element to display customer personal data if the customer is a person.

TURNOVER

The element contains information about balance account turnovers per a period specified in the file main element.

CONTRACT

The element contains the contract data in accordance with which the account was opened.

FLEXIBLE\_FIELD

The element contains flexible fields with theirs values.

1. PAYMENT ORDER FILE STRUCTURE
   1. Overview

The file contains comprehensive information on payment orders for export and import.

The direction of the file may be INCOMING or OUTGOING.

* 1. References

Example of xml document with most common operation:

payment\_order\_out\_example.xml – outgoing payment orders

payment\_order\_in\_example.xml – incoming payment orders

* 1. List of elements

| Tag name | Data type | Size | Occurs | Description |
| --- | --- | --- | --- | --- |
| Payment\_orders | | | | |
| inst\_id | int | 4 | 0-1 | Institution ID |
| file\_date | Date |  | 0-1 | File date |
| File\_number | string | 16 | 0-1 | File number |
| Payment\_order | payment\_order |  | 1-\* | Information about payment orders |
| Payment order | | | | |
| order\_id | long | 16 | 1-1 | Payment order id |
| customer\_number | String | 200 | 1-1 | Customer number |
| amount | amount |  | 1-1 | Amount of payment order |
| currency | string | 3 | 1-1 | Currency |
| order\_date | date |  | 1-1 | Date of payment order |
| parameter | parameter |  | 0-\* |  |
| purpose\_id | int | 8 | 0-1 | ID of payment order purpose |
| resp\_code | string | 8 | 0-1 | Payment order response code (PORC dictionary) |
| Parameter | | | | |
| param\_name | String | 200 | 1-1 | Payment order parameter name |
| param\_value | string | 2000 | 1-1 | Payment order parameter value |

inst\_id

Institution ID

file\_date

Date of file creation

file\_number

File number

order\_id

ID of payment order

customer\_number

Customer number

amount

Amount

currency

Currency

order\_date

Date of payment order

purpose\_id

ID of payment order purpose

resp\_code

Response code. Applicable for import payment orders from CBS

| Code | Description |
| --- | --- |
| PORC0001 | Processed |
| PORC0002 | Failed |
| PORC0003 | Expired |

param\_name

Name of payment order parameter

param\_value

Value of payment order parameter

1. SETTLEMENT ACKNOWLEDGEMENT FILE STRUCTURE
   1. Overview

Format is using for response on exported entries (Response on part 3 - clearing file structure).

* 1. References

Example of xml document:

svxp\_settlement\_ack.xml

* 1. List of elements

| Tag name | Data type | Size | Occurs | Description |
| --- | --- | --- | --- | --- |
| entries | | | | |
| file\_type | string | 8 | 1 | Type of incoming file. Describe the purpose of data in file. Dictionary FLTP. Value FLTPSACK - Settlement acknowledgement. |
| inst\_id | int | 4 | 0-1 | An institution ID |
| entry | entry |  | 1-\* | Information about entry settlement indicator changing. |
| entry | | | | |
| entry\_id | long | 16 | 1-1 | Internal identifier of entry |
| account | account |  | 1-1 | Account that affected by entry |
| amount | amount |  | 1-1 | Transaction amount |
| sttl\_flag\_date | date |  | 0-1 | Settlement flag date |
| account | | | | |
| account\_number | string | 32 | 1-1 | Account number |
| currency | string | 3 | 1-1 | Account currency |
| amount | | | | |
| amount\_value | long | 16 | 1-1 | Amount value expressed in minimal currency units |
| currency | string | 3 | 1-1 | Amount currency |

ENTRIES

This is a root element of the file.

FILE\_TYPE

The element contain type of incoming file.

ENTRY

Entry which was settled in external system.

ACCOUNT

Account for entry posting.

ACCOUNT\_NUMBER

Account number.

AMOUNT

The amount drawn on the account in the current entry.

AMOUNT\_VALUE

The value of the amount in minimum denominations of currency.

CURRENCY

The currency of the amount. Numeric ISO currency code.