SMARTVISTA MAPPING DESCRIPTION

SVXP to CREF/DBAL

December 2014

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1. PREFACE
   1. Revision history

| Revision | Date | Author | Details |
| --- | --- | --- | --- |
| 1.0 | 12.12.2014 | Maslov I. | Initial version |
| 1.1 | 04.10.2018 | Kolodkina Y. | Added new tags for DBAL: DF8036, DF8035 |

* 1. Document purpose

This document describe mapping of filed form svxp standard to svfe CREF/DBAL standard. This document developed for internal use of BPC.

* 1. Fundamental documents

“SMARTVISTA FRONT END CREF and DBAL FILE FORMAT” version 2R70 form 19.12.2012

“SMARTVISTA EXCHANGE PROTOCOL (SVXP) API developer reference” version 7.0 from 11.12.2014

“STANDARD SMARTVISTA COMMON ALGORITHMS” version 2R321 from 13.01.2012

1. Rules for BER-TLV Data Objects

All exchange files due to contain Applications FF45 – File Header and FF46 – File Trailer.

DF805D tags contain consistent and unique values. DF805D uniqueness within a single application (lines).

* 1. FF45 – Application File Header

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** | **SVXP/comment** |
| DF805D | Sequence | X | M |  |
| FF49 | File Header Block | X | M |  |

* + 1. FF49 – File Header Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** | **SVXP/comment** |
| DF807D | File Type | X | M | FTYPOCR - CREF  FTYP ODB - DBAL |
| DF807C | File Date | X | M | DBAL accounts /file\_date  CREF - Current date time |
| DF8079 | Institution Number | X | M | CREF - cards\_info /inst\_id or 9999 if null  DBAL - 9999 |
| DF807A | Agent Code | X | O | cards\_info/card\_info/agent\_number |
| DF8566 | Encoding Name | X | O |  |
| DF861F | Settlement date | X | С | Not transmit |

Tag DF861F mandatory for DBAL file if turn on synchronization between posting and DBAL file. Tag DF861F always optional for CREF file.

* 1. FF46 – Application File Trailer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** | **SVXP/comment** |
| DF805D | Sequence | X | M |  |
| FF4A | File Trailer Block | X | M |  |

* + 1. FF4A – File Trailer Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** | **SVXP/comment** |
| DF807E | Number of records | X | M | Count record with header and trailer |
| DF8060 | CRC | X | O |  |

1. Card Reference File

Card reference(CREF) file consists of records header(FF45), trailer(FF46) and several body(FF3A).

For body record used data with structure SVXP.card\_info.

* 1. FF3A – Front End Card Data Block

Record structure FF3A – Front End Card Data Block contains the blocks:

|  |  |  |  |
| --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** |
| FF3F | NN | Front End Address Block | O |
| FF40 | S | Front End Customer & Cardholder Block | O |
| FF41 | S | Front End Card Details Block | M |
| FF42 | NN | Front End Card Limit Block | O |
| FF43 | NN | Front End Card-Acct Block | O |
| FF44 | NN | Front End Card-Misc Acct Block | O |
| FF8009 | NN | Front End Additional Services Block | O |

* + 1. FF3F – Front End Address Block (card\_info/cardholder/address)

If input data have several “cards\_info / cardholder /address” need to use first order by address\_type: ADTPSTDL, ADTPHOME, ADTPBSNA, ADTPLGLA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF801F | Box Number | X | M | cards\_info / cardholder /address / house |
| DF8020 | Address Line 1 | X | M | cards\_info / cardholder /address /address\_name/ street |
| DF8021 | Address Line 2 | X | O | cards\_info / cardholder /address /address\_name/city |
| DF8024 | Region | X | O | cards\_info / cardholder /address /region\_code |
| DF8025 | Country | X | O | cards\_info / cardholder /address /country |
| DF8026 | Postal/Zip code | X | O | cards\_info / cardholder /address /postal\_code |
| DF8027 | Primary Phone | X | O | cards\_info/card\_info/cardholder/contact/commun\_address |
| DF8029 | Mobile Phone | X | O | cards\_info/card\_info/cardholder/contact/commun\_address |

* + 1. FF40 – Front End Customer & Cardholder Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF8003 | Customer ID | X | M | customer/customer\_number |
| DF8007 | Cardholder ID | X | M | cardholder/cardholder\_number |
| DF8006 | VIP Code | X | O | customer\_category |
| DF8079 | Institution Number | X | M | cards\_info/inst\_id |
| DF807A | Agent Code | X | M | card\_info/ agent\_number |
| DF807B | Customer Code | X | O |  |
| DF8013 | Security ID 1 | X | M | sec\_word/secret\_answer |
| DF8012 | Language Code | X | O |  |
| DF8019 | First Name | X | M | cardholder/person/person\_name/first\_name |
| DF801A | Second Name | X | O | cardholder/person/person\_name/second\_name |
| DF801B | Surname | X | M | cardholder/person/person\_name/surname |
| DF8418 | INN | X | O |  |
| DF8419 | KPP | X | O |  |
| DF8330 | OKPO | X | O |  |
| DF8004 | Customer description | X | O |  |
| DF845B | Customer type | X | M | customer/entity\_type |
| DF845C | Customer entity ID | X | O | customer/object\_id |
| DF845D | Cardholder entity ID | X | O | cardholder/person/person\_id |

* + 1. FF41 – Front End Card Details Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF802C | Card Number | X | M | card\_number |
| DF8042 | Embossed Name | X | O | cardholder/cardholder\_name |
| DF8073 | OAR Flag | X | M | Default OARF0  Or other value that set in the converter |
| DF8074 | Card Sequence Number | 9 | M | sequential\_number |
| DF8076 | FE Hot Card Status | X | M | card\_status |
| DF8077 | PIN Offset | X | O | pin\_offset |
| DF8032 | Card Start Date | X | M | card\_start\_date |
| DF8078 | Expiration Date | X | M | expiration\_date |
| DF8030 | Primary ATM Account | X | O | /card\_info/account/account\_number |
| DF8031 | Primary POS Account | X | O | /card\_info/account/account\_number |
| DF8101 | CVC1 | 9 | O |  |
| DF8102 | CVC2 | 9 | O |  |
| DF8103 | PVV | 9 | O | pvv |
| DF806E | Record Processing Code | 9 | M | 1 |
| DF8163 | PIN REISSUED FLAG | 9 | O | cards\_info/card\_info/pin\_update\_flag |
| DF8179 | PLASTIC ISSUED | 9 | O |  |
| DF802F | Card Type | X | M | card\_type\_id |
| DF8002 | Contract ID | X | O | cards\_info/card\_info/product\_number |
| DF824E | EMV Data | X | O |  |
| DF8370 | Fee Scheme | 9 | O | cards\_info/card\_info/product\_number |
| DF862D | Currency Rate Modifier Scheme | 9 | O |  |
| DF8454 | Hot Card Status Reason | X | O |  |
| DF8455 | Hot Card Status Reason Description | X | O |  |
| DF802D | Is Primary Card | 9 | O | cards\_info/card\_info/category |
| DF8520 | Double PIN | 9 | O |  |
| DF8104 | Card Issue Date, DDMMYYYY format | 9 | O |  |
| DF8579 | Initialization vector for calculating CVC3 in Track 1 | X | O |  |
| DF857A | Initialization vector for calculating CVC3 in Track 2 | X | O |  |
| DF862B | Positive Cardholder Authorization Service (PCAS) identifier | 9 | O |  |
| DF862E | Old Card Number | X | O |  |

* + 1. FF42 – Front End Card Limit Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF8064 | Limit Type | X | M | limit/limit\_type |
| DF8065 | Limit Value | 9 | M | limit/ sum\_limit  or  limit/count\_limit  depends from limit type |
| DF8066 | Limit Length | 9 | C | limit/ cycle\_length |
| DF8067 | Limit Length Type | X | C | limit/ length\_type |
| DF8068 | Limit End Date | X | C | limit/next\_date |
| DF806E | Record Processing Code | 9 | M | 1 |
| DF808E | Limit Currency | 9 | O | limit/currency |

Tags DF8066, DF8067, DF8068 are mandatory for cyclic limits. Otherwise value for these tags is not provided.

Limit tag not uploaded if limit/sum\_limit and limit/count\_limit set to value -1.

* + 1. FF43 – Front End Card-Acct Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF8033 | Account Number | X | M | account\_number |
| DF8035 | Account Type | X | M | account\_type |
| DF806E | Record Processing Code | 9 | M | 1 |
| DF8107 | Account Sequence Number | 9 | M | не заполнять |
| DF8105 | Account Name – ACCT\_OPEN | X | O |  |

1. Daily Balance

Daily Balance(DBAL) file consists of records header(FF45), trailer(FF46) and several body(FF3B).

For body record used data with structure SVXP.account.

* 1. FF3B – Front End Account Data Block

Record structure FF3B – Front End Account Data Block contains the blocks:

|  |  |  |  |
| --- | --- | --- | --- |
| **Tag** | **Length** | **Description** | **Optional / mandatory** |
| FF3D | S | Front End Account Detail Block | M |
| FF3E | NN | Front End Account Limit Block | O |
| FF801E | NN | Front End Account Payment Block | O |
| FF8009 | NN | Front End Additional Services Block | O |

* + 1. FF3D – Front End Account Detail Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF8033 | Account Number | X | M | account/account\_number |
| DF8069 | FE Account Status | 9 | M | account/account\_status |
| DF806A | Issuer Available Balance | 9 | M | account/aval\_balance |
| DF806B | Debit/Credit | X | O |  |
| DF806C | Issuer Hold Amount | 9 | O | balance[balance\_type=BLTP0002]/turnover/outgoing\_balance |
| DF806D | Issuer Ledger Balance | 9 | O | balance[balance\_type=BLTP0001]/turnover/outgoing\_balance |
| DF8034 | Currency Code | 9 | M | account/currency |
| DF8037 | Source for opening the account | X | O |  |
| DF806E | Record Processing Code | 9 | M | account/account\_status  if ACSTCLSD – 3  other - 1 |
| DF8055 | Account Exceed Limit | 9 | M | balance[balance\_type=BLTP1001]/turnover/outgoing\_balance |
| DF8370 | Fee Scheme | 9 | O |  |
| DF840B | Unbilled Amount | 9 | O |  |
| DF820E | Account Status Reason | X | O |  |
| DF8453 | Account Status Reason Description | X | O |  |
| DF845E | Account maximum available balance | 9 | O |  |
| DF834E | Account irreducible subbalance | 9 | O |  |
| DF8414 | Grace Period End Date | 9 | O |  |
| DF8415 | Total Amount Due | 9 | O |  |
| DF8416 | Minimal Amount Due | 9 | O |  |
| DF8606 | Installment Balance | 9 | O |  |
| DF8036 | Account Status | 9 | O | account/account\_status |
| DF8035 | Account type | 9 | O | account/account\_type |

* + 1. FF3E – Front End Account Limit Block

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tag** | **Description** | **Picture** | **Optional / mandatory** | **SVXP/Comments** |
| DF805D | Sequence | X | M |  |
| DF8064 | Limit Type | X | M | limit/limit\_type |
| DF8065 | Limit Value | 9 | M | limit/ sum\_limit |
| DF8066 | Limit Length | 9 | C | limit/ cycle\_length |
| DF8067 | Limit Length Type | X | C | limit/ length\_type |
| DF8068 | Limit End Date | X | C | limit/next\_date |
| DF813A | Current (today) amount | X | C | limit/sum\_current |
| DF806E | Record Processing Code | 9 | M | 1 |
| DF808E | Limit Currency | 9 | O | limit/currency |