

**SMARTVISTA BACK OFFICE**

**EXTERNAL SYSTEM RECONCILIATION INTERFACE**

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# Overview

This document describes specifications for the file exchange containing transactions processed in an external system for reconciliation with the same transactions as they were processed in SmartVista Front-End (SVFE).

The reconciliation takes place in SmartVista Back-Office (SVBO) using mechanism of SVBO processes which loads the reconciliation file coming from an external system and outputs an exception report as a file of a similar format.

File format and naming convention

The file with transactions coming from an external system to SmartVista will be in plain text format, and consists of file header, transactional data (line by line) and file footer. Checksums are provided for each data line and for the whole file in the footer.

Filename follows this convention:

ZZZ\_MMDDYYYYTIME\_IN.dat for the incoming file which is loaded into SVBO

ZZZ\_MMDDYYYYTIME\_OUT.dat for the resulting file containing exceptions

Where ZZZ is the 3-letter codename for the external system, to distinguish files coming from different sources, MMDDYYYY is full date and TIME is the full time stamp (hours in 24-hour format, minutes, seconds - HHMMSS).

## Notation conventions

|  |  |  |
| --- | --- | --- |
| Field | Designation | |
| Picture | A | Alphadigit field |
| N | Numeric field |

# INCOMING and outgoing FILE FORMAT

* 1. file header

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Field name** | **Type** | **Length** | **Value** | **Description** |
| 1 | Record Type | A | 4 | 0001 | Type of record 0001=Header Record. |
| 2 | File Type | A | 6 | UNIREC | Universal Reconciliation File |
| 3 | Version | N | 9 | 2 | Version of file format. Must be leading with zeroes. |
| 4 | File Date | N | 8 |  | File date in format YYYYMMDD |

* 1. FILE BODY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Type** | **Offset.** | **Length** | **Value** | **Description** |
| 1 | Record Type | A | 1 | 4 | 0002 | Type of record 0002=Detail Record |
| 2 | Card number (PAN) | A | 5 | 19 |  | The card number is right indented and space characters must be added to the left if the length is less than 19. |
| 3 | Processing code | N | 24 | 6 |  | Transaction processing code |
| 4 | Transaction amount | N | 30 | 12 |  | Transaction amount in the trx currency. In minimal units according to ISO standard (ex. USD 100 = 10000). Must be leading with zeroes. |
| 5 | Settlement amount | N | 42 | 12 |  | Transaction settlement amount in the settlement currency. In minimal units. Must be leading with zeroes. |
| 6 | Amount of cardholder billing in minimal units | N | 54 | 12 |  | Transaction amount in the account currency. In minimal units according to ISO standard (ex. USD 100 = 10000). Leading zeros must be added if length is less than 12. |
| 7 | Settlement conversion rate | N | 66 | 8 |  | Format is nXXXXXXX, where n is decimal place and XXXXXXX is the rate (zeroes must be added up if value is null). |
| 8 | Billing cardholder conversion rate (F10) | N | 74 | 8 |  | Format is nXXXXXXX, where n is decimal place and XXXXXXX is the rate (zeros must be added up if value is null). |
| 9 | Trace number | N | 82 | 6 |  | Leading zeros must be added if length is less than 6 |
| 10 | Local transaction  Time | N | 88 | 6 |  | Format: HHMMSS, where hours are in 24-hour format |
| 11 | Local transaction date | N | 94 | 6 |  | Format: YYMMDD |
| 12 | Settlement date | N | 100 | 6 |  | Format: YYMMDD |
| 13 | Terminal type | A | 106 | 4 | ATM  POS, EPOS,  VOIC | Types of card acceptor  Terminals. Left aligned and filled up with spaces on the right if the sequence length is less than 32. |
| 14 | Acquiring Institution  ID Code | N | 110 | 8 |  | BIN of the acquiring institution (if applicable). The acquiring institution code is right indented and space characters must be added to the left if the length is less than 8. Filled with zeros if value is null. |
| 15 | Issuer Institution  ID Code | N | 118 | 8 |  | BIN of issuer bank. Right indented and filled up with spaces to the left if length is less than 8. Filled with zeros if value is null. |
| 16 | Beneficiary Bank  Code | N | 126 | 8 |  | For inter-bank fund transfers.  Right indented and filled up with spaces to the left if the sequence length is less than 8. Filled with zeros if value is null. |
| 17 | Forwarding Institution Code | N | 134 | 8 |  | Right indented and filled up with spaces to the left if the sequence length is less than 8. Filled with zeros if value is null. |
| 18 | Authorization Number | A | 142 | 6 |  | This field depends on issuing bank host, it may be 6 digits or 6 characters |
| 19 | Retrieval Reference Number | A | 148 | 12 |  | Leading spaces must be added if length is less than 12 |
| 20 | Card Acceptor Terminal  Identification | A | 160 | 8 |  | The unique code to identify a card acceptor terminal in the system of the acquiring system (terminal ID) |
| 21 | Transaction currency code | A | 168 | 3 |  | 3-digit currency code |
| 22 | Settlement currency code | A | 171 | 3 |  | 3-digit currency code |
| 23 | Currency code of cardholder billing | A | 174 | 3 |  | 3-digit currency code |
| 24 | Message Type Identifier Code (MTI) | A | 177 | 4 | \*2\*\*  \*4\*\* | Message Type Identifier Code:  \*2\*\* original \*4\*\* reversal |
| 25 | Transaction status (response code) | N | 181 | 4 |  |  |
| 26 | Reversal Flag | N | 185 | 1 | 0, 1. | Reversal Flag: 0 – original operation; 1 – Reversal. |
| 27 | SVFE Universal Transaction Number | N | 186 | 12 |  | Leading zeros must be added if length is less than 12 |
| 28 | Issuer Fee | N | 198 | 12 |  | Leading zeros must be added if length is less than 12. Last two digits are decimal. Filled with zeros if value is null. |
| 29 | Acquirer Fee | N | 210 | 12 |  | Leading zeros must be added if length is less than 12. Last two digits are decimal. Filled with zeros if value is null. |
| 30 | Network Fee | N | 222 | 12 |  | Leading zeros must be added if length is less than 12. Last two digits are decimal. Filled with zeros if value is null. |
| 31 | Transferee Fee | N | 234 | 12 |  | Leading zeros must be added if length is less than 12. Last two digits are decimal. Filled with zeros if value is null. |
| 32 | From account | N | 246 | 28 |  | Leading zeros must be added if length is less than 28 |
| 33 | To account | N | 274 | 28 |  | Leading zeros must be added if length is less than 28 |
| 34 | Additional1 | A | 302 | 32 |  | Left aligned and filled up with spaces on the right if the sequence length is less than 32 |
| 35 | Additional 2 | A | 334 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 36 | Additional 3 | A | 366 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 37 | Additional 4 | A | 398 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 38 | Additional 5 | A | 430 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 39 | Additional 6 | A | 462 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 40 | Additional 7 | A | 494 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 41 | Additional 8 | A | 526 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 42 | Additional 9 | A | 558 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |
| 43 | Additional 10 | A | 590 | 32 |  | Left aligned and filled up with spaces to the right if the sequence length is less than 32 |

# List of Revisions

| № | Date | Name, Surname | Modifications |
| --- | --- | --- | --- |
| **1** | **2012-10-04** | **Ha Huy Minh** | **First version** |
| **2** | **2012-06-27** | **Buyantuev Nikolay** | **Added Optional Fields** |
| **3** | **2014-06-30** | **Priadko Ivan** | **Version 2**  **Field “REVERSAL FLAG” added.**  **Field “SVFE UTRNNO” added.**  **A few useless fields deleted.**  **Local trxn date format expanded with ‘YY’.**  **Settlement date format expanded with ‘YY’.**  **Several field types corrected.**  **Export and import use the same format.** |
| **4** | **2014-10-28** | **Priadko Ivan** | **All ‘Optional’ names are changed on ‘Additional’.**  **All ‘will be added’ descrs changed on ‘must be added’.** |