File Validator User Manual

Version 1.0

User Manual: File Validator

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Prepared By

Version No.	Date	Name & Position	Signature
1.0	23-06-2015	Pradeep Kumar Reddy, Officer	

Reviewed by

Version No.	Date	Name & Position	Signature
1.0	23-06-2015	Sankara Subramanian, Manager	

Approved by

Version No.	Date	Name & Position	Signature
1.0	23-06-2015	Neeraj Choudhary, AVP	

Table of Contents

File Validator User Manual 1
Objective 4
Installation 4
Features 4
Processing Steps 5
Validations 6
Basic Validations 6
File Name Validations 6
File Data Validations 7
Reports 7
Validations that are not handled in this tool 9
Annexure I 10

Objective

The objective of this manual is to provide step-by-step procedures for installation and usage of the file validator.

This tool will ensure that file passes through all technical validations before uploading to NACH and also it will generate reports.

Installation

This file validator tool is a binary application which does not require any installation. Just copy the jar file to local system and double click on the jar file to open the file validator.

The following are the minimum system requirements to run the file validator

System OS	: Windows -98, Windows XP+, Windows-2000, and Windows-ME
System RAM	: 512MB
System ROM	: 500MB
Internet Explorer	: IE 6+
Java version	: 1.4

Features

1. Validator will only validate input file of ECS CR, NECS CR & ECS DR format
2. Will accept only unsigned files
3. Multiple files up to maximum of 10 files can also be validated at the same time
4. Summary report and detailed error report will be generated
5. Validates the file naming convention as per the NACH standards other than the Bank short code and Bank NACH user ID.
6. User friendly tool without any installation package.

Processing Steps

User has to double click the tool to open, click browse to select the file(s) from the local machine and tick on to “accept the terms and conditions” before proceeding to validate.

The below screen describes the tool in detail.

1. Click browse button to select the file(s) from local machine
2. Tick on the Accept the Terms & Conditions
3. Click Validate to do the validations of the selected files
4. Processed steps and status of each file with reports location will be displayed
5. Status of the file uploaded.
6. Total number of records uploaded in the file
7. Total number of error records in the file
8. Double click the file name to open the reports related to that file

Validations

Tool handles the different levels of validations.

1) Basic Validations
2) File Name Validations
3) File Content Validations

Basic Validations

The following are the basic validations that are handled in this tool,

1. User clicks on Validate without browsing the file, then the alert will be displayed as “No File Chosen”.
2. File is uploaded without accepting the terms and conditions of the disclaimer, then error will be displayed as “Accept the terms and conditions”.

File Name Validations

File name validations are handled as given below

1. The files with the name starting with ECS-CR/ ECS-DR/ NECS-CR will only be visible in the browsing window to pick the files for validating.
2. In case the user uploads files other than the above name, then file will be rejected with error message “Please upload a valid file”.
3. If the file name is not as per the naming convention given below, then the same will be rejected.

File Naming Convention:

<Process Name>-<TransType>-<Bank Identifier>-<LoginId>-<Date>-<Seq No>-INP.txt

Where:

- Process Name – Ex: ECS/NECS
- Trans Type –
  - CR – Credit file
  - DR – Debit file
- Bank Identifier – 4 Char bank Identifier as defined in NACH system
- LoginId - User Login Id of sponsor bank in NACH system
- Date –ddmmyyyy (Date of Upload)
- Seq No – Running sequence number

Sample File Name:

ECS-CR-SBIN-SBINUser1-23062015-000001-INP.txt

4. Date in the file name will be validated against the current system date, for example if the date in the file name is not the current system date, then the same will be rejected with the error message as "File date is not the current date".

5. If there are multiple errors in the file naming convention, say the date in the file name is incorrect and RTN instead of INP, then error message will be displayed as "The file should be an INP.txt file".

6. If the bank Identifier is not equal to four characters, then error message will be displayed as "The file name should contain the bank short name".

File Data Validations

Only Technical validations will be done

- Field format (Character, Alpha Numeric)
- Type (Optional/Mandatory)
- Header Code will be accept only 11 for ECS-CR/NECS-CR and 55 for ECS-DR
- Record Trancode will be accept as numeric value only from 10 to 99 for both ECS Credit and ECS debit
- Destination account type is an optional field, this field should be either space or to be filled with any one of the fixed value 10,11,12,13,29,30,31.
- The file length will be accept on below values in between with Minimum and Maximum of
    - ECS- CR/DR Header Length = 133 - 156
    - ECS- CR/DR Record Length = 133 - 156

Reports

Data level validations are followed as per file formats of ECS input file format attached as per the Annexure I.

Tool will generated the following two reports based on the input file uploaded.

1) Summary report
2) Detailed report

Sample File Name:

The report file name will have the uploaded file name itself for easy identification.

SummaryReport_ ECS-CR-SBIN-SBINUser1-23062015-000001-INP.txt

DetailedReport_ ECS-CR-SBIN-SBINUser1-23062015-000001-INP.txt

If there are no errors then detailed report will not be generated and only summary report will be generated.

To view the Summary and Detailed Report, user has to double click on the file name visible in the Tool interface which will open the reports.

Sample Summary and Detailed Reports are given below.

Summary Report

The Summary report will be displayed as below.

SummaryReport_ECS-CR-SBIN-SBINUser1-23062015-000001-INP - Notepad

File Edit Format View Help

```
REPORT: ECS-R-1

                 NATIONAL PAYMENTS CORPORATION OF INDIA

                 ************************************

            DATA VALIDATION REPORT   (P A R T - A)

   USER DETAILS
   ------------

   1. NACH CR-USER NAME                          :      23NXMaker

   2. SPONSOR BANK AND BRANCH                    :      390319002

   3. CEILING ON CREDIT ITEMS                    :      0000  0100000

   4. SETTLEMENT DATE                            :      10/13/2011

   VALIDATION  DETAILS
   -------------------

   5. TOTAL NO. OF CREDIT RECORDS                :      4

   6. NO. OF VALID CREDIT RECORDS                :      1

   7. NO. OF INVALID CREDIT RECORDS              :      3

   8. AMOUNT OF CONTRA RECORD                    :      0

   9. GENERATED TOTAL OF CREDIT                  :      4000

   10.DIFFERENCE BETWEEN THE                     :      -4000
      INPUT AND GENERATED CONTRA

   DATED:23/06/2015                                                    SIGNATURE OF AUTHORISED
```

Detailed Report

The detailed report will be displayed as below with all the errors in the file in detail.

DetailedReport_ECS-CR-SBIN-SBINUser1-23062015-000001-INP - Notepad

File Edit Format View Help

```
REPORT: NACH CR-R-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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```

```
REC-NO    TC   USER-BANK          TYPE      ACCOUNT-NUMBER      BNFY-BANK          USER-NO        AMOUNT(in paise)    ERROR-MESSAGES
00        11   390319002                                                           2983324        0000   004000       credit and debit amount do not match, User defi
2         22   390319002          11        823456789123453     390319002          2983985        0000000001000       Ledger folio number cannot have right padded sp
3         22   390319002          12        823456789123453     797804102          2983985        0000000001000       Ledger folio number cannot have right padded sp
4         22   390319002          15        823456789123453     797804102          2983985        0000000001000       Invalid destination account type.
```

```
Debit Total(in paise)   = 0
Credit Total(in paise)  = 4000
Difference(in paise)    = -4000
Total Records           = 4
No Of Errors            = 4
```

Validations that are not handled in this tool

- NACH Business validation will not been included in this tool and all the Business validations will be take care only in the NACH system.
- Validation is done for each field as per current file format attached as Annexure I. A later change in file format requires source code change.
- There is no duplicate file check in this Validator.
- Validation will not be automatically done once a change is done to a field in the file. User needs to again browse and click validate button to do the validations.
- Bank Short name and Login user Id in the filename are not validated in this tool.
- File Sign verification will not been handled in this tool.

Annexure I

Sr. No	Field Description	Length	Field Type	Mandatory	Remarks
Header					
1	ACH transaction code	2	NUM	Mandatory	Code 11 for ECS CR/NECS CR and 55 for ECS DR
2	User Number	7	NUM	Mandatory	User Number should be only numbers. User number allotted by RBI for ECS
3	User Name	40	ALP NUM	Mandatory	Alpha Numeric description
4	User Reference	14	ALP NUM	Mandatory	User defined reference number for the entire transaction (Alpha Numeric)
5	ECS file number	9	NUM	Optional	User defined input tape
6	Sponsor Bank MICR	9	ALP NUM	Mandatory	Sponsor Bank MICR
7	User's Bank Account Number	15	ALP NUM	Optional	Account number of the User to be debited by Sponsor Bank (Alpha numeric)
8	Ledger Folio Number	3	ALP NUM	Optional	Alpha numeric Ledger Folio particulars.
9	User Defined limit for individual items	13	NUM	Optional	User defined limit which would be taken for validating the credit / debit items, in paise
10	Total Amount in paise (Balancing Amount)	13	NUM	Mandatory	Amount in paise
11	Settlement Date (DDMMYYYY)	8	NUM	Mandatory	Date on which settlement is sought to be effected
12	Reserved (kept blank by user)	10	NUM	Optional	ACH File sequence number to be allotted by NPCI
13	Reserved (kept blank by user)	10	NUM	Optional	Checksum Total generated by NPCI
14	Filler	3	ALP NUM	Optional	Spaces
	Total	**156**			

Records					
1	ACH Transaction Code	2	NUM	Mandatory	Code 10 to 99 will be allowed in ECS Credit
2	Destination sort code	9	ALP NUM	Mandatory	Destination Bank MICR
3	Destination Account Type	2	NUM	Optional	As provided by Bank - Needs to be as per NECS(10/11/12/13/29/30/31) or blank.
4	Ledger Folio Number	3	ALP NUM	Optional	Alpha numeric Ledger Folio particulars. Left padded with spaces
5	Beneficiary's Bank Account number	15	ALP NUM	Mandatory	Alpha numeric description
6	Beneficiary Account Holder's Name	40	ALP NUM	Mandatory	Alpha numeric description
7	Sponsor Bank MICR	9	ALP NUM	Mandatory	Sponsor Bank MICR
8	User Number	7	NUM	Mandatory	User Number should be only numbers. User number allotted by NPCI
9	User Name / Narration	20	ALP NUM	Optional	Alpha numeric description; Will be used as Narration Data
10	Transaction Reference	13	ALP NUM	Mandatory	User defined Reference Number such as Ledger Folio number, or Share / Debenture Cert. No. or Job Card No. or any other unique identification number given by the User for the individual beneficiaries
11	Amount	13	NUM	Mandatory	Amount in paise
12	Reserved (ACH Item Seq No.)	10	NUM	Optional	To be Blank
13	Reserved (Checksum)	10	NUM	Optional	To be Blank
14	Reserved (Flag for success / return)	1	NUM	Optional	To be Blank
15	Reserved (Reason Code)	2	NUM	Optional	To be Blank
	Total	**156**			