



Features and Benefits

TECHNICAL SUPPORT

24/7

support@chip-n-stripe.com

on-site or remote

baby-sitting

ZERO DOWNTIME

release management,

version rollback

and restore

TURNKEY SOLUTIONS

deployment and

certification for

Visa and

MasterCard

systems,

clearing reporting and

reconciliation



X²X transformation factory engine for bankcard clearing format manipulations is a 100% java console application with no needs to be connected to any database or other external information source.

The package supports natively most of the major clearing formats

- VISA BASEII CTF/ITF
- MasterCard GCMS IPM
- American Express
- ECCF-NF
- Berlin Group

The average transformation speed is of 18-25K transactions per minute

The key objective of this package is to convert the clearing files from its 'native', often binary, format to its XML representation and vice-versa. The use of XML in the middle allows making almost any data transformation at the lowest possible cost, thanks to the huge amount of XML processing tools available on the market.

The custom clearing formats are supported via transformation modules, additionally developed upon customer request and specifications.

As a measure of the additional assurance and the PA/PCI-DSS compliance, for in-house use the system may be delivered in both, open source and pre-compiled modes, of the client choice of the license type.

System Requirements

- Linux, Windows or Solaris OS platforms
- Java 1.6 or higher
- no DBMS is required

Professional Services

- Bi-annual release maintenance (GCMS & BASEII)
- Implementation Support
- Certification Support
- Installation and Setup
- Application Support
- Guaranteed Warranty

... It was the event of GCMS landing to Europe who initiated the development of the system, capable to receive ECCF messages and convert them into IPM and vice versa. There are systems even nowadays, operating in the retired Europay world. We use the x2x concept to convert their traffic to IPM and present it to the GCMS and then transform the IPM coded GCMS files back to ECCF.

For more information
on any of
our products
or services
please visit or
contact us

www.chip-n-stripe.com
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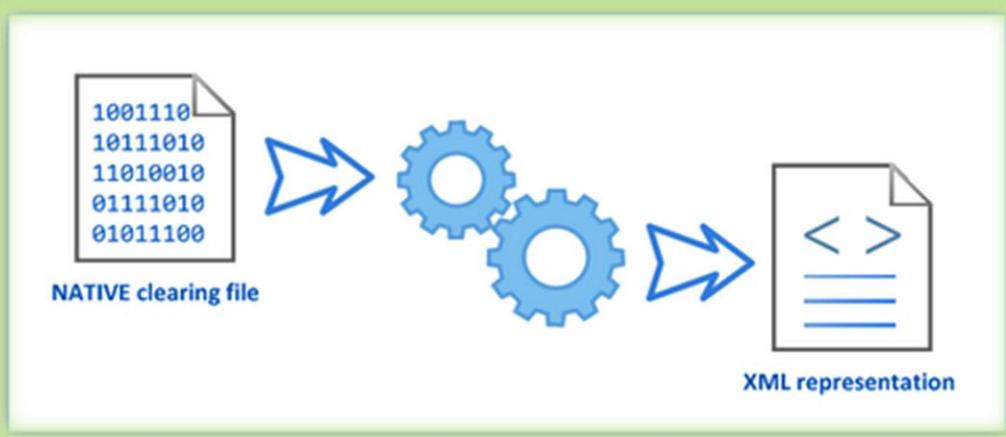
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rescue services 4 bankcard systems

```

|x2xRunner |Logging level set to [INFO]
FO|x2xRunner |X2X Conversion Appli
FO|x2xRunner |Input file name : .
FO|x2xRunner |Output file name : .
FO|x2xRunner |Mode : i
FO|ipm2xml | 6 messages processe
FO|x2xRunner |X2X Conversion Appli
FO|x2x_wfr2br|x2x_brl2wfr.pl sampl
FO|x2x_wfr2br|x2x_brl2wfr.pl sampl

```

~ NATIVE2XML ~



```

<?xml version="1.0" encoding=
<br>
<isomsg>
  <field id="0" value="1644
  <field id="24" value="670
  <field id="33" value="056
  <isomsg id="48" descripto
    <isomsg id="2105" descr
      <field id="1" value="
      <field id="2" value="
      <field id="3" value="
      <field id="4" value="
      <field id="5" value="
    </isomsg>
  <field id="2122" value="P" descriptor="PROCESSING MODE" />

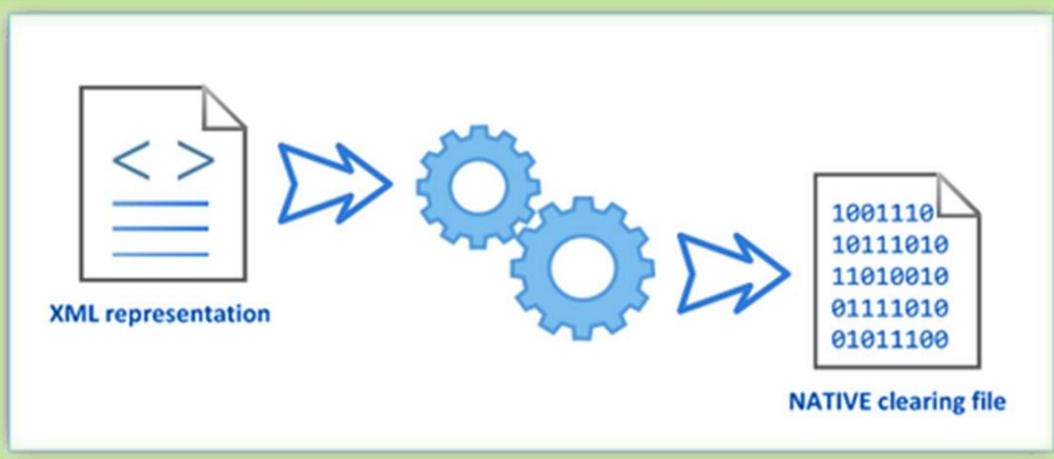
```

```

<messages>
{

```

~ XML2NATIVE ~



```

doc($docUri)/ctf/enve
in doc("CTF_sample_02
isomsg[@id=0]/field[@i

```

```

CARD_NO := concat(1
AMOUNT_TXN := $i/isomsg
CCY := $i/isomsg
MCC := $i/isomsg
TID := $i/isomsg
MID := $i/isomsg
COUNTRY := $i/isomsg
M NAME := local:tri

```

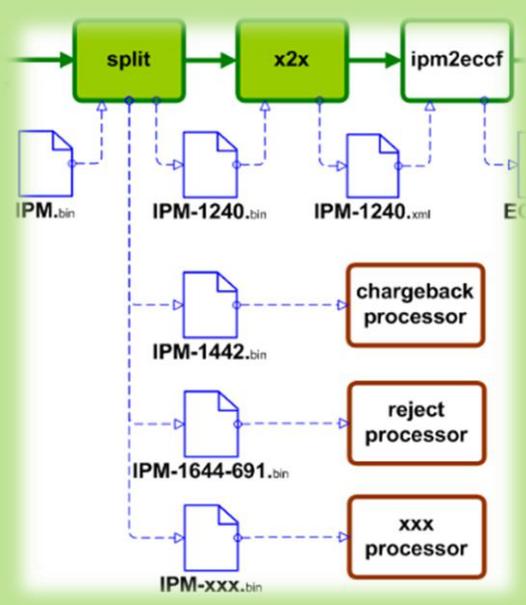
AMOUNT	R_CCY	R_AUTHCODE
898000	643	821235
029800	643	535473
005000	643	(null)
059000	643	572782
041620	643	648655
71 130430	643	718041
35 130430	643	983637
		584679
		611920
		241674

```

*** Draft Data
*** TC 05,06,07,15,16,17,25,26,27,35,36,37

```

~ THE SPLIT ~



X2X package is an essential part of most of CHIP-N-STRIPE back-office products and customizable solutions. IRDOptima STAND-ALONE, DISPUTE PROCESSOR and E-PROFUX applications all are based on the functionality, delivered by X2X.

X2X is able not only transform messages, but also do a file and block operations like split, merge, filter and reorder messages of specified type.

```

<messages>
{
  for $i in doc($docUri)/ctf/enve
  (: for $i in doc("CTF_sample_02
  where $i/isomsg[@id=0]/field[@i
  return
    let $CARD_NO := concat(1
    let $AMOUNT_TXN := $i/isomsg
    let $CCY := $i/isomsg
    let $MCC := $i/isomsg

```

```

Cardholder ID Method
Collection-Only Flag
POS Entry Mode

```