Bulk File Upload- NDB - eWindow

<CONFIDENTIAL>

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National Development Bank PLC

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**Version and reviews**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision ID | Action | Date | Author | Comments |
| 1.0 | **Initial version** | **2019/02/01** | **NDB** |  |
| 1.1 | **Data encryption and initial vector** | **2019/02/05** | **NDB** |  |
|  |  |  |  |  |

1. **Data Encryption & Zip File Upload**
   1. **Overview**

Using this option customer will upload secured data files to e-Window application. Successfully uploaded transactions will appear in the e-window system for authorization.

* 1. **File Generation & Upload Process**

System uses Asymmetric and Symmetric key hybrid model to secure data files.

1. Initially NDB and e-window customer should share public keys in X.509 base 64 encoded formats.
2. Customer should have a randomly generated key (256 bits) to encrypt transaction data file. Customer can use single key pair for all the companies or multiple key pairs.
3. Transaction data should be enclosed to a XML file described below.
4. Transaction file should be digitally signed using RSA PKI and encrypted using random key (using AES algorithm – use “NDBeWindowIniVec” as initial vector )
5. Digital signature should include in the same XML file (Refer section 3). Digital signature should be generated using SHA256withRSA
6. Random key should be stored in hexadecimal format and encrypted (RSA) using NDB public key shared with the customer.
7. ZIP file should be generated including encrypted Transaction file and Random key file.
8. Name of the zip file (extension .zip), XML (extension .xml) file and the random key text file (extension .key) should be the same as follows. Length of the file name should be limited to 65 characters.

***Order:***

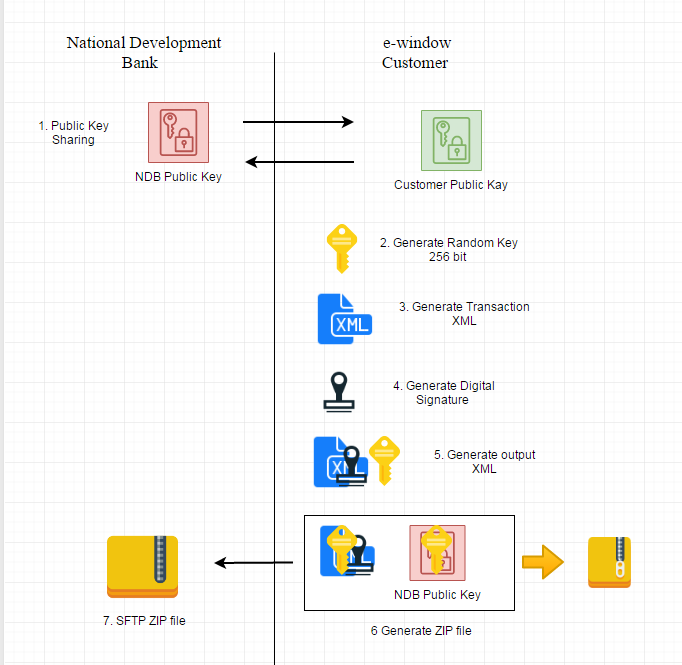
***Inputter\_CID\_TxnID\_DateTime\_RandomlyGeneratedFourNumbers***

* Inputter – NDB provided eWindow username
* CID – NDB provided company ID
* Transaction type ID
* DateTime – ddMMyyyyHHmmss

***Eg:***

***EWINUSER.NBL4W\_5190\_*01\_22031999050607\_6483**

* 1. **Flow Diagram**

******

* 1. **XML Format**

<?xml version="1.0" encoding="UTF-8"?>

<ewin\_api\_banking>

<ewin\_api\_banking\_header>

<user\_verification>

<ewin\_transaction\_type>2</ewin\_transaction\_type>

<ewin\_customer\_no>5190</ewin\_customer\_no>

<ewin\_user\_name>jljev5Y4tKTen1HVXOewWWCEcCihhuacc3siFGQGH2o=</ewin\_user\_name>

<ewin\_password>wF/3cv8WMUnkqGZxVYgZ9g==</ewin\_password>

<ewin\_transaction\_count>3</ewin\_transaction\_count>

</user\_verification>

</ewin\_api\_banking\_header>

<ewin\_api\_banking\_body>

<ewin\_api\_banking\_transactions\_details>

<transaction>TEST1;101000023931;106050045229;21/06/2018;12000;At the Rate of 113.0, Contract Number 0101, Murray @ NBL Treasury;;;</transaction>

<transaction>TEST2;101000023931;106050045229;21/06/2018;150000.5;At the Rate of 1110.5, Contract Number 0101, Murray @ NBL Treasury;;;</transaction>

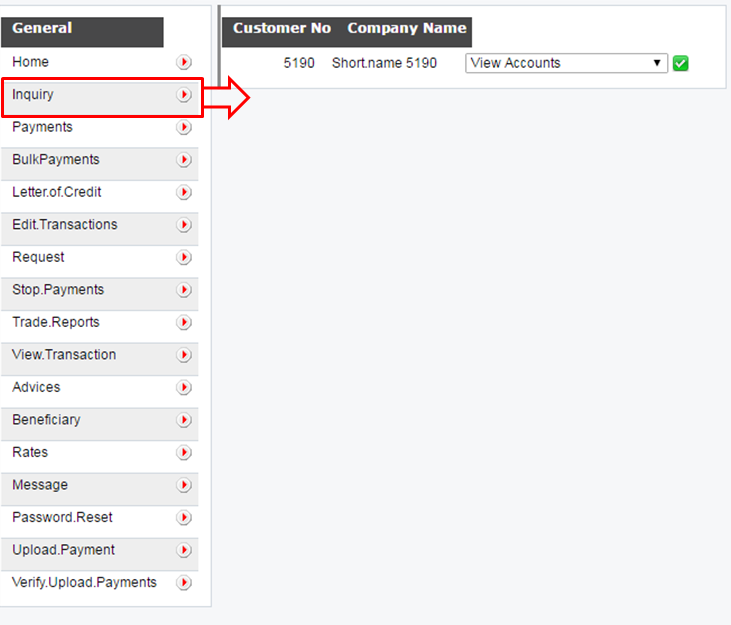
<transaction>TEST3;101000023931;106050045229;21/06/2018;276750;At the Rate of 45000.5, Contract Number 0101, Murray @ NBL Treasury;;;</transaction>

</ewin\_api\_banking\_transactions\_details>

</ewin\_api\_banking\_body>

</ewin\_api\_banking>

* Following is a description of the *<user\_verification>* tag
  + *<ewin\_transaction\_type>* - Transaction type ID given by NDB
  + *<ewin\_customer\_no>* - Company ID – can be obtained from below function.



* + *<ewin\_user\_name>* - Inputter’s username(eWindow) – should be encrypted using above mentioned randomly generated AES key and it should be BASE64 encoded (customer can use existing inputter user name and password)
  + *<ewin\_password>* - Inputter’s password(eWindow) – should be encrypted using above mentioned randomly generated AES key and it should be BASE64 encoded
  + *<ewin\_transaction\_count> -* No. of transactions
  1. **Transaction Types**
* There are several transaction types in bulk upload.
* Transaction body will be different according to each transaction type.
* Refer the following details and change the transaction body of the *<transaction></transaction>* inside the XML file according to each transaction type.

|  |  |  |
| --- | --- | --- |
| **Txn Type ID** | **Code** | **Txn Type** |
| 01 | ARC.UPLOAD.CHEQUE.UPLOAD | Cheques |
| 02 | ARC.UPLOAD.FT.DRAFT | Drafts |
| 03 | ARC.UPLOAD.FT.INTER.TRANSFER | Internal / Group Transfer |
| 04 | ARC.UPLOAD.FT.PAY.ORDER | Pay Order |
| 05 | ARC.UPLOAD.FT.RTGS | RTGS |
| 06 | ARC.UPLOAD.FT.SLIPS | Slips |
| 07 | ARC.UPLOAD.FT.TPT | Third Party Transfer |
| 08 | ARC.UPLOAD.FT.TT | Electronic Funds Transfer - Foreign |
| 09 | ARC.UPLOAD.FT.TT.LCY | Electronic Funds Transfer - Local |

1. **Transaction Data Formats**
   1. **CC Upload(Txn Type ID - 01)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 16 | *Compulsory* |
| Account Number | 12 | *Compulsory* |
| Beneficiary Name | 80 | *Compulsory* |
| Beneficiary Address | 100 | *Compulsory* |
| Payment Details | 140 | *Compulsory* |
| Value Date | 10 | *Compulsory* |
| Cheque Amount | 15 | *Compulsory* |
| Delivery Mode | 2 | *Compulsory* |
| Invoice Details | 300 | *Compulsory* |
| Payment Location | 20 | *Optional* |
| Print Location | 20 | *Optional* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

*Customer Reference No.; Account Number; Beneficiary Name; Beneficiary Address; Payment Details; Value Date; Cheque Amount; Delivery Mode; Invoice Details;*

# *Eg –*

# *TestCheque1;101000023931;A B C Perera;80/1, High level Road ,Nugegoda;Vehicle Hire;21/06/2018;12000.25;MA;1457878,1564664,51651;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Compulsory field – “Invoice Details” could be blank with a terminated semicolon.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field Name* | *Description* |
| Customer Reference Number | Key Field used to identify the transaction in the accounting system. Eg – invoice no, GL no. |
| Account Number | Debit account number |
| Beneficiary Name | Payment Receiving Party |
| Beneficiary Address | Address of the beneficiary  (Address should be separated with comas when required – for Mail Address Printing) |
| Payment Details | Instructions given to the bank |
| Value Date | Date of the payment (DD/MM/YYYY) |
| Cheque Amount | Amount in Rupees |
| Delivery Mode | Delivery method after printing cheque  There are 4 methods  MA – Mail  OC – Counter collect  RM- Register post  RT – Return to customer |
| Invoice Details | Invoice details to be printed on the cheque |
| Payment Location | Branch name which the payment can be collected |
| Print Location | Branch name which the payment to be printed |

* 1. **Draft Upload(Txn Type ID - 02)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 16 | *Compulsory* |
| Debit Account Number | 12 | *Compulsory* |
| Beneficiary Name | 65 | *Compulsory* |
| Beneficiary Address | 140 | *Compulsory* |
| Value Date | 08 | *Compulsory* |
| Draft Currency | 03 | *Compulsory* |
| Amount | 15 | *Compulsory* |
| Payment Details | 35 | *Compulsory* |
| Invoice Details | 35 | *Compulsory* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

# *Customer Reference No; Debit Account Number; Beneficiary Name; Beneficiary Address; Value Date; Credit Currency; Draft Amount; Payment Details; Invoice Details;*

# *Eg –*

*Test;101000023931;A B Somapala;TEST BEN ADDRESS;21/06/2018;USD;175;TEST PAYMENT DETAILS;TEST INVOICE DETAILS;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
  1. **Internal Transfer Upload(Txn Type ID - 03)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 16 | *Compulsory* |
| Debit Account Number | 12 | *Compulsory* |
| Credit Account Number | 12 | *Compulsory* |
| Value Date | 10 | *Compulsory* |
| Amount | 15 | *Compulsory* |
| FX Contract | 100 | *Compulsory* |
| Payment Details | 140 | *Optional* |
| Invoice Details | 300 | *Optional* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

# *Customer Reference No; Debit Account Number; Credit Account Number; Amount; Value Date; FX Contract;*

# *Eg –*

# *TESTIFT1;101000023931;106050045229;21/06/2018;1000;At the Rate of 113.0, Contract Number 0101, Murray @ NBL Treasury;;;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Debit Account Number & Credit Account Number Should pick the Company Name When it’s Group of company Situation.
* Debit Account Number should decide the Currency. (ie. LKR, SGD,USD etc)
* FX Contract – Gives the exchange rate & Contract Number & Contacted Person in the Bank. This information is needed for internal transfers for different currencies.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field name* | *Description* |
| Customer reference number | Key field, used to identify the transaction in the accounting system. Eg – invoice no, GL no. |
| Debit account number | Debit account number \*\* this will decide the company name and the currency to debit |
| Credit account number | Credit account number \*\* this will decide the company name and the currency to credit |
| Value date | Date of the payment (dd/mm/yyyy) |
| Amount | Amount (in same currency of the debit a/c no) |
| Fx contract | Indicate special rate of the currency |
| Payment details | Instructions given to the bank |
| Invoice details | Invoice details to be printed on the for the internal transfer |

* 1. **Pay Order Upload(Txn Type ID - 04)**

|  |  |  |  |
| --- | --- | --- | --- |
| ***No*** | ***Field Name*** | ***Length*** | ***Remarks*** |
| 1 | Customer Reference No | 16 | *Compulsory* |
| 2 | Account Number | 12 | *Compulsory* |
| 3 | Beneficiary. Name | 105 | *Compulsory* |
| 4 | Beneficiary Address | 100 | *Compulsory* |
| 5 | Payment Details | 140 | *Compulsory* |
| 6 | Value Date | 10 | *Compulsory* |
| 7 | Amount | 15 | *Compulsory* |
| 8 | Delivery Mode | 2 | *Compulsory* |
| 9 | Invoice Details | 300 | *Optional* |
| 10 | Payment Location | 20 | *Conditional* |
| 11 | Print Location | 20 | *Optional* |
| 12 | Mail to Address | 200 | *Conditional* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

# *Customer Reference No; Account Number; Beneficiary. Name; Beneficiary Address; Payment Details; Value Date; Cheque Amount; Delivery Mode; Invoice Details; Payment Location; Print Location; Mail to Address;*

# *Eg.1 –*

*TestPO1;101000023931;A B C Perera;80/1, High level Road ,Nugegoda; Vehicle Hire;21/06/2018;12000.25;MA;;;;No76,Alpha street, Colombo 2;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Compulsory field – “Invoice Details” could be blank with a terminated Semicolon.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field Name* | *Description* |
| Customer Reference Number | Key Field used to identify the transaction in the accounting system. E.g. – invoice no, GL no. |
| Account Number | Valid NDB Debit account number |
| Beneficiary Name | Payment receiving party |
| Beneficiary Address | Address of the beneficiary  (address should be separated with comas when required – for mail address printing) |
| Payment Details | Instructions given to the bank |
| Value Date | Current Date (dd/mm/yyyy) |
| Cheque Amount | Amount in Rupees |
| Delivery Mode | Delivery method after printing pay order  There are 4 methods  MA – Mail  OC – Counter collect  RM - Register Post  RT – Return to customer |
| Invoice Details | Invoice details to be printed on the pay order |
| Payment Location | Branch Code which the payment can be collected  (E.g.- LK0011005 – Rajagiriya Branch)  Mandatory if Delivery Mode set as ‘OC’ otherwise blank. |
| Print Location | Branch name which the payment to be printed |
| Mail To Address | Mandatory if Delivery Mode set as ‘MA’, ‘RM’ otherwise blank. |

* 1. **RTGS Upload(Txn Type ID - 05)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference Number | 20 | *Compulsory* |
| Debit Account ID | 12 | *Compulsory* |
| Value Date | 10 | *Compulsory* |
| Amount | 20 | *Compulsory* |
| Beneficiary Account ID | 20 | *Compulsory* |
| Beneficiary Bank SLIPS code | 4 | *Compulsory* |
| Charges Mode | 3 | *Compulsory (Ben/Sha/Our)* |
| Beneficiary Name | 35 | *Compulsory* |
| Beneficiary Address | 35 | *Compulsory* |
| Payment Details | 35 | *Compulsory* |
| Beneficiary Bank Name | 35 | *Compulsory* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

# *Customer Reference No; Debit Account No; Value Date; RTGS Amount; Destination AC No; Destination Bank SLIPS Code; Charges Mode; Beneficiary Name; Beneficiary Address; Payment Details ; Beneficiary Bank Name;*

# *Eg –*

*TestRTGS1;101000023931;21/06/2018;120;456123456987;7056;OUR;MIHIRI DE MEL;450 KALUBOWILA;TEST PAYMENT DETILS;SCB BANK;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
  1. **SLIPS Upload(Txn Type ID - 06)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference Number | 4 | *Compulsory* |
| Bank ID | 4 | *Compulsory* |
| Branch Code | 3 | *Compulsory* |
| Credit Account No | 12 | *Compulsory* |
| Amount | 12 | *Compulsory* |
| Debit Account No | 12 | *Compulsory* |
| Value Date | 10 | *Compulsory* |
| Account Name | 20 | *Compulsory* |
| Description/Narration | 15 | *Compulsory* |
| Transaction Code | 2 | *Compulsory* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

*Customer Reference No; Destination Bank ID; Branch Code, Credit Account; Amount; Debit Account No; Value Date; Beneficiary Name; Description; Transaction code;*

# *Eg –*

SLP1;7214;003;106050045229;1000;101000023931;21/06/2018;Kumari Perera ;Salary Feb 2008;52;

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field Name* | *Description* |
| Customer reference number | Employee number or Client Reference no |
| Beneficiary Bank Code | Destination Bank Code |
| Beneficiary Branch code | Destination Branch Code |
| Credit Account No | Payee Account Number |
| Amount | Transfer amount in rupees |
| Debit Account No | Your Company Account number |
| Value Date | Account credit date |
| Account/Payee Name | Credit Account holders name |
| Description | Narration which needs to be appear on account statement |
| Transaction code | Default Value - 52 |

* 1. **Third Party Transfer Upload(Txn Type ID - 07)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 20 | *Compulsory* |
| Debit Account Number | 12 | *Compulsory* |
| Value Date | 10 | *Compulsory* |
| Priority | 5 | *Compulsory* |
| Amount | 15 | *Compulsory* |
| Credit Account No | 12 | *Compulsory* |
| Payee Name | 120 | *Compulsory* |
| Payee Address | 180 | *Compulsory* |
| Payment Details | 180 | *Compulsory* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DD/MM/YYYY
* Fields in order,

*Customer Reference No; Debit Account Number; Value Date, Priority; Amount; Credit Account No; Payee Name; Payee Address; Payment Details;*

# *Eg –*

*TestThird1;101000023931;21/06/2018;HIGH;1000.51;106050045229;Payee Name;Payee Address;Payment details;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field name* | *Description* |
| Customer Reference No. | Company reference Number |
| Debit Account Number | Company debit account number |
| Value Date | Value date of the transaction |
| Priority | Priority level ‘HIGH’ or ‘MEDIUM’ |
| Amount | Amount need to be transferred |
| Credit Account No | Payee/Credit NDB account number |
| Payee Name | Payee name |
| Payee Address | Payee address |
| Payment Details | Details of the payment |

* 1. **EFT Upload – Foreign(Txn Type ID - 08)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 16 | *Compulsory* |
| Debit Account Number | 12 | *Compulsory* |
| Transfer Currency | 3 | *Compulsory* |
| Transfer Amount | 18 | *Compulsory* |
| Value Date | 8 | *Compulsory* |
| Credit/ Beneficiary Account Number | 34 | *Compulsory* |
| Beneficiary Name | 35 | *Compulsory* |
| Beneficiary Address 1 | 35 | *Compulsory* |
| Beneficiary Address 2 | 35 | *Optional* |
| Beneficiary Address 3 | 35 | *Optional* |
| Purpose | 35 | *Compulsory* |
| Additional Instructions | 35 | *Optional* |
| Additional Instructions | 35 | *Optional* |
| Clearing Code | 35 | *Optional* |
| Charges Details | 3 | *Compulsory* |
| Special Instructions | 35 | *Optional* |
| Beneficiary SWIFT Code | 35 | *Optional* |
| Beneficiary Bank Name | 65 | *Compulsory* |
| Beneficiary Bank Address | 65 | *Compulsory* |
| Inter Bank SWIFT Code | 35 | *Optional* |
| Intermediary Bank Name | 35 | *Optional* |
| Intermediary Bank Address | 140 | *Optional* |
| Remarks | 35 | *Optional* |
| Payment Term | 25 | *Optional* |
| Delivery Term | 10 | *Optional* |
| Email Address | 40 | *Optional* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – DDMMYYYY
* Fields in order,

# *Customer Ref No;Debit Account;Transfer Currency;Transfer Amount;Value Date;Beneficiary Acct No/IBAN;Beneficiary Customer;Purpose;Additional Instructions;Additional Instructions;Clearing Code;Charges Details;Special Instructions;Beneficiary SWIFT Code;Beneficiary Bank Name;Beneficiary Bank Addr;Inter Bank SWIFT Code;Intermediary Bank Name;Intermediary Bank Address;Remarks;Payment Term;Delivery Term;E mail;*

# *Eg –*

*TestEFTFO5;101000023931;USD;100;20180621;GB90BARC20574053007577;FORWESSUN TEST SYSTEMS LIMITED;Test Address;;;To order goods;White color television;Trasnfer without damages;00S11;SHA;Interest Free;CCYXXX;American Bank;No 1, York street, Newyork;BYHGXXX;HSBC;No 321, Colombo 2 ;Remarks;ADVANCE.PAYMENT;DEQ;asitha@arpico.com;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field Name* | *Description* |
| Customer reference number | Key field, used to identify the transaction in the accounting system. Eg – invoice no, gl no. |
| Debit account number | Customer’s debit account number (decides the currency to debit) |
| Transfer Currency | Credit Currency |
| Transfer Amount | Amount Specified to transfer |
| Value Date | Date of the Payment (YYYYMMDD) |
| Credit/ beneficiary account number | Beneficiary’s bank account number to credit (payment receiving party’s a/c no) |
| Beneficiary Customer | Payment receiving party name and address |
| Purpose | Payment Purpose |
| Additional Instructions | More details of the payment |
| Additional Instructions | More details of the payment |
| Clearing Code | ABA/Sort Code/BLZ/BSB/Transit No/Branch etc... |
| Charges Details | Should be one of BEN,SHA,OUR |
| Special Instructions | More details if any |
| Beneficiary SWIFT Code | Beneficiary’s bank swift address/code (Payment receiving party’s bank swift details) |
| Beneficiary bank name | Beneficiary’s bank name (Payment receiving party’s bank name) |
| Beneficiary bank address | Beneficiary’s bank address  (Payment receiving party’s bank address) |
| Inter Bank SWIFT Code | Intermediary’s bank swift address/code (Payment processing bank swift details) |
| Intermediary Bank Name | Intermediary’s bank address  (Payment processing party’s bank address) |
| Intermediary Bank Address | Intermediary’s bank address  (Payment processing party’s bank address) |
| Remarks | Invoice details to be printed on the for reference (if needed) |
| Payment Term | Should be one of below ADVANCE.PAYMENT, POST.PAYMENT or Blank |
| Delivery Term | Should be one of below  FOB, CIF, CFR, EXW, CIP, CPT, DAF, DDP, DDU, DEQ,, DES, FAS, FCA, OTH |
| E mail address | E mail address |

* 1. **EFT Upload – Local(Txn Type ID - 9)**

|  |  |  |
| --- | --- | --- |
| ***Field Name*** | ***Length*** | ***Compulsory/Optional*** |
| Customer Reference No. | 16 | *Compulsory* |
| Debit Account Number | 12 | *Compulsory* |
| Transfer Currency | 3 | *Compulsory* |
| Transfer Amount | 18 | *Compulsory* |
| Value Date | 8 | *Compulsory* |
| Credit/ Beneficiary Account Number | 34 | *Compulsory* |
| Beneficiary Name | 35 | *Compulsory* |
| Beneficiary Address 1 | 35 | *Compulsory* |
| Beneficiary Address 2 | 35 | *Optional* |
| Beneficiary Address 3 | 35 | *Optional* |
| Bank Code | 4 | *Compulsory* |
| Purpose | 35 | *Compulsory* |
| Additional Instructions | 35 | *Optional* |
| Additional Instructions | 35 | *Optional* |
| Additional Instructions | 35 | *Optional* |
| Remarks | 35 | *Optional* |
| Charges Details | 3 | *Compulsory* |
| Email Address | 40 | *Optional* |

**Note:**

* The above details have to be included inside transaction body in XML.
* Fields are separated by a semicolon.
* Date Format – YYYYMMDD
* Fields in order,

*Customer Ref No;Debit Account;Transfer Currency;Transfer Amount;Value Date;Beneficary Account No;Beneficiary Name;Beneficiary Address Line 1;Beneficiary Address Line 2;Beneficiary Address Line 3;Bank Code;Purpose;Additional Instructions;Additional Instructions;Additional Instructions;Remarks;Charges Details;email;*

# *Eg –*

*TestEFTLO1;101000023931;USD;700;20180621;GB90BARC20574053007577;Albert Soysa;No 32, Melani Rd, Colombo 2;;;7056;To Transfer goods;Shipping bill settlement;;;Please proceed;SHA;asitha@arpico.com;*

* Above is an example of one transaction which should be included inside *<transaction></transaction>* in XML.
* Description of the fields as follows.

|  |  |
| --- | --- |
| *Field Name* | *Description* |
| Customer reference number | Key field, used to identify the transaction in the accounting system. Eg – invoice no, gl no. |
| Debit account number | Customer’s debit account number (decides the currency to debit) |
| Transfer Currency | Credit Currency code (eg: USD, JPY, EUR...etc...) |
| Transfer Amount | Amount Specified to transfer |
| Value Date | Date of the payment (YYYYMMDD) |
| Beneficiary Account No | Beneficiary’s bank account number to credit (Payment receiving party’s a/c no) |
| Beneficiary Name | Payment receiving party name |
| Beneficiary Address Line 1 | Address of the beneficiary (Address should be separated with comas when required) |
| Beneficiary Address Line 2 |
| Beneficiary Address Line 3 |
| Bank Code | Beneficiary’s bank code (Should be 4 digit number in F.AI.NDB.BANK.MASTER file) |
| Purpose | Purpose to the transfer |
| Additional Instructions | More Details |
| Additional Instructions | More Details |
| Additional Instructions | More Details |
| Remarks | Remarks of the transaction |
| Charges Details | Should be one of below values BEN, SHA, OUR |
| Email Address | Email Address |

1. **Adding the Signature(Enveloped Signature)**

Following is an example for a signed XML (**2.1)**

*<?xml version="1.0" encoding="UTF-8" standalone="no"?><ewin\_api\_banking>*

*<ewin\_api\_banking\_header>*

*<user\_verification>*

*<ewin\_transaction\_type>2</ewin\_transaction\_type>*

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