

e-BRC Information Services

Version: 0.1

Directorate General of Foreign Trade
Ministry of Commerce & Industry
Government of India

Prepared by
National Informatics Centre (NIC-DGFT)

Document Organisation

This document has the following sections.

Introduction: Identify the purpose, audience.

Process Detail: Details about e-BRC Information Services process.

Annexure: Response codes, sample XML files etc.

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Abbreviations:

BRC	Bank Realisation Certificate
IFSC	Indian Financial System Code
DGFT	Director General of Foreign Trade
IEC	Importer Exporter Code
DS	Digital Signature
Consumer	Recipient of eBRC Information (web) Services

Introduction

Bank Realisation Certificate (BRC) is issued by Banks based on realisation of payment against export by an Exporter. Message exchange with banks has resulted into Repository of Foreign Exchange realisation information in form of Electronic Bank Realisation Certificate (e-BRC).

DGFT plans to share this information with all stake holders like Customs, RBI and various Departments of State Government by the way of e-BRC Information Services.

This document specifies broad outline of e-BRC information services. Further Service can be tailor made to suit the needs of consumer.

Audience

- Interested external agencies like Departments of State Government , Customs , RBI henceforth termed as **Consumer** (Recipient of e-BRC Information (web) Services)

Purpose

- To outline the process
- Role of Service Provider i.e. DGFT
- Role of Consumer

Index

Sr.No.	Contents	Page no.
1	Key features of e-BRC Information Services	4
2	e-BRC information made available to users	5
3	Input Parameters (Request Parameters)	6
4	Response contents	7
5	Validations	8
6	Registration	9
7	Process Flow	9
8	Annexure	10
	Sample Request XML e-BRC information XML Response codes Currency Codes	

1. Key features of e-BRC Information Services

- DGFT has published web services to access e-BRC information. Access to information is for registered users only. Consumer need to register with DGFT before consuming the web services. Consumer need to sign a MoU with DGFT.
- Information exchange will be automatic, without any human intervention.
- DGFT expects the consumer to use the web services in dynamic way and avoid bulk data exchange (download) using these web services.
- All Information exchange (request and Response data) will be in platform independent predefined XML format.
- Authorisation, Authentication and tamper proof aspect of information will be through Digital signature based message exchange.
- e-BRC information will be available for e-BRC issued and uploaded on or after **17.08.2012**
- e-BRC information is snapshot of data at the time of request.

2. e-BRC information made available to users

By default only Active e-BRC data is shared

Information	Remarks
BRC number	e-BRC number
BRC date	Date of BRC generation by bank
Importer Exporter Code (IEC)	
Name of the exporter	
Bank Code (IFSC)	
Shipping bill number/ Invoice number	
Shipping bill date	
6 character custom port code	Custom port code /DEEMED/OTHERS
Currency of realisation	See currency code list
Total realised Value in currency of realisation	It may/may not include commission
Date of Realisation	

Note:

e-BRC information will be available for e-BRC issued and uploaded on or after **17.08.2012**

3. Input Parameters (Request Parameters)

Consumer → DGFT

Parameter to be exchanged	XML Element Name	Type, Length	Mandatory
BRC number	BRCNO	Char(20)	Optional
Importer Exporter Code (IEC)*	IEC	Char(10)	Optional
Permanent Account Number of the Firm (PAN)*	EXPPAN	Char(10)	Optional
Bank Code (IFSC) (BRC generated by)	IFSC	Char(11)	Optional
Shipping Bill Number	SNO	Char(20)	Optional. When user needs data for a shipping bill then shipping bill number, port, date are mandatory
Shipping bill Port	SPORT	Char(6)	
Shipping bill date	SDATE	Date(yyyy-mm-dd)	
Date of Realisation	FRDATE, TRDATE	Date(yyyy-mm-dd)	Optional. In case user needs BRC data for a period then realisation period is mandatory

***When consumer needs information based only on IEC or PAN then the period of realisation is mandatory.**

4. Response Contents

DGFT → Consumer

Response XML will have a unique Request Id and timestamp and one or more e-BRC element with following information for each BRC.

XML file level parameters:

Parameter to be exchanged	XML Element Name	Type, Length
Request Id	RQSTNO	Char(15)
Request served at Time	RQSTTIME	Timestamp
Response Code	RESPCODE	Char(3)

For each e-BRC:

BRC level Parameter to be exchanged	XML Element Name	Type, Length
BRC number	BRCNO	Char(20)
BRC date	BRCDATE	Date(yyyy-mm-dd)
Importer Exporter Code (IEC)	IEC	Char(10)
Name of the exporter	EXPNAME	Char(50)
Bank Code (IFSC)	IFSC	Char(11)
Shipping bill number/ Invoice number	SNO	Char(20)
6 character custom port code	SPORT	Char(6)
Shipping bill date	SDATE	Date(yyyy-mm-dd)
Currency of realisation	RCC	Char(3)
Total realised Value in currency of realisation	RVALUE	Decimal(15,2)
Date of Realisation	RDATE	Date(yyyy-mm-dd)

Note :

Request Id : user id /running sequence number e.g. MH01/5678
Repose Code : Please see the Annexure for list of response codes.

5. Input validations

Request Parameter	XML Element Name	Type, Length	Validation
BRC number	BRCNO	character (20)	<ul style="list-style-type: none"> ✓ Exact 20 character in length ✓ Format of BRC NO: <ul style="list-style-type: none"> • First 11 characters: IFSC Code of branch which issued e-BRC • Next 9 characters Numeric
Importer Exporter Code (IEC)	IEC	character (10)	✓ 10 character valid IEC issued by DGFT.
PAN	EXPPAN	character (10)	✓ 10 Alphanumeric
Bank Code(IFSC)	IFSC	character (11)	<ul style="list-style-type: none"> ✓ Exact 11 character in length ✓ Alphanumeric characters
Shipping Bill Number	SNO	character (20)	<ul style="list-style-type: none"> ✓ Max 20 characters ✓ Alpha numeric characters and '-' and '/' ✓ Alphabets in capital letters
Shipping bill Port	SPORT	character (6)	<ul style="list-style-type: none"> ✓ 6 characters Port code as per code list provided by DGFT. ✓ In case of deemed export port code should be 'DEEMED' and ✓ 'OTHERS' for Export document supported by VPP, Courier etc, old shipping bill where port code is not available.
Shipping bill date	SDATE	Date	✓ Format: YYYY-MM-DD
Date of Realisation	FRDATE TRDATE	Date	✓ Format: YYYY-MM-DD

6. Registration

- ✓ One time registration of Digital Certificate of the Administrator for Consumer.
- ✓ Consumer of e-BRC information services has to register the public key (Digital Signature) of one user who will act as Administrator.
- ✓ Administrator in turn can register other users (DS) for consumption of information.

Digital Certificate and signing specifications:

- ✓ Certificate should be 2048 characters long SHA-II standard PKI technology approved by CCA.
- ✓ Class II, III certificates are accepted.

7. Process Flow:

Step –I: One time Registration for e-BRC information services

Step –II: Consumer to write a web service client to consume the web service

Step III: Call web service by sending the request in predefined XML format

Step IV: Consume the response received from DGFT (in XML format) and use .

8. Annexure

Generic Request XML : Request XML to have following format .

- Input request parameters are sub elements of ENVELOPE element .
- < ENVELOPE >.. </ ENVELOPE > part of XML is to be signed with user certificate.
- No empty element is allowed.
- See the Sample Cases based on specific input parameters for more details.

```
<?xml version="1.0" encoding="UTF-8"?>
<BRCRQST>
<ENVELOPE>
  <BRCNO> ebrcno</BRCNO>
  <IEC>iec</IEC>
  <EXPPAN>Exporter's PAN </ EXPPAN >
  <IFSC> IFSC of branch (bank) </ IFSC >
  <SNO>Shipping bill number</ SNO >
  <SDATE>Shipping bill date </SDATE>
  <SPORT> Port of export</SPORT>
  <FRDATE>Realisation date from </FRDATE>
  <TRDATE> Realisation date upto </TRDATE>
</ENVELOPE>
<DIGSIGN>
  <USERID>userid</USERID>
  <CERTNO>user certificate number</CERTNO>
  <SIGNHASH>signature hash</SIGNHASH>
</DIGSIGN>
</BRCRQST>
```

- o Sample Cases based on specific input parameters

Request based on e-BRC number
<pre><?xml version="1.0" encoding="UTF-8"?> <BRCRQST> <ENVELOPE> <BRCNO>UTIB0000003000001255</BRCNO> </ENVELOPE> <DIGSIGN> <USERID>MH001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6LcZ</SIGNHASH> </DIGSIGN> </BRCRQST></pre>
Request based on IEC
<pre><?xml version="1.0" encoding="UTF-8"?> <BRCRQST> <ENVELOPE> <IEC>0388622200</IEC> <FRDATE>2013-01-25</FRDATE> <TRDATE>2013-02-28</TRDATE></pre>

<pre> </ENVELOPE> <DIGSIGN> <USERID>MH001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH> </DIGSIGN> </BRCRQST> </pre>
<p>Request based on PAN</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <BRCRQST> <ENVELOPE> <EXPPAN>ABDCC1039M</ EXPPAN > <FRDATE>2013-01-25</FRDATE> <TRDATE>2013-02-28</TRDATE> </ENVELOPE> <DIGSIGN> <USERID>MH001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH> </DIGSIGN> </BRCRQST> </pre>
<p>Request based on Shipping bill number</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <BRCRQST> <ENVELOPE> <SNO>1234567</ SNO > <SDATE>2012-08-25</SDATE> <SPORT>INNSA1</SPORT> </ENVELOPE> <DIGSIGN> <USERID>MH001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH> </DIGSIGN> </BRCRQST> </pre>
<p>Request based on IFSC</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <BRCRQST> <ENVELOPE> <IFSC>BKID000FORT</ IFSC > <FRDATE>2013-01-25</FRDATE> <TRDATE>2013-02-28</TRDATE> </ENVELOPE> <DIGSIGN> <USERID>MH001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH> </DIGSIGN> </BRCRQST> </pre>

- **e-BRC information XML**

- A valid request will be processed and e-BRC information will be enclosed in ENVELOPE element as shown below.
- < ENVELOPE >.. </ ENVELOPE > part of XML will be signed with DGFT authorized signatory's certificate.

Response XML with data
<pre> <?xml version="1.0" encoding="UTF-8"?> <EBRCINFO> <RQSTNO>MH001/1</RQSTNO> <RQSTTIME>2013-03-31 15:25:10</RQSTTIME> <RESPCODE>000</RESPCODE> <ENVELOPE> <EBRC> <BRCNO>UTIB0000003000001255</BRCNO> <BRCDATE>2012-12-25</BRCDATE> <IEC>0288622200</IEC> <EXPNAME>A B C COMPANY</EXPNAME> <IFSC>UTIB0000003</IFSC> <SNO>1234567</SNO > <SDATE>2012-08-25</SDATE> <SPORT>INNSA1</SPORT> <RCC>USD</RCC> <RVALUE>3456.23</RVALUE> <RDATE>2012-12-19</RDATE> </EBRC> <EBRC> <BRCNO>UTIB0000003000001256</BRCNO> <BRCDATE>2012-12-25</BRCDATE> <IEC>0288622200</IEC> <EXPNAME>A B C COMPANY</EXPNAME> <IFSC>UTIB0000003</IFSC> <SNO>2345656</SNO > <SDATE>2012-08-24</SDATE> <SPORT>INNSA1</SPORT> <RCC>USD</RCC> <RVALUE>3456.23</RVALUE> <RDATE>2012-12-19</RDATE> </EBRC> </ENVELOPE> <DIGSIGN> <USERID>DGFT001</USERID> <CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO> <SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH> </DIGSIGN> </EBRCINFO> </pre>
Response XML with no data found

```
<?xml version="1.0" encoding="UTF-8"?>
<EBRCINFO>
<RQSTNO>MH001/2</RQSTNO>
<RQSTTIME>2013-03-05 15:25:10</RQSTTIME>
<RESPCODE>999</RESPCODE>
<ENVELOPE>
<EBRC/>
</ENVELOPE>
<DIGSIGN>
<USERID>DGFT001</USERID>
<CERTNO>42 02 00 2a 53 2c 36 ea 28 d9</CERTNO>
<SIGNHASH>AHAwP5nMcxU7Temebu6L</SIGNHASH>
</DIGSIGN>
</EBRCINFO>
```

Response XML when request contains error

```
<?xml version="1.0" encoding="UTF-8"?>
<EBRCINFO>
<RQSTNO>MH001/3</RQSTNO>
<RQSTTIME>2013-03-05 15:20:10</RQSTTIME>
<RESPCODE>R03</RESPCODE>
<RESPCODE>R05</RESPCODE>
</EBRCINFO>
```

- **Response codes**

Response Code	Description
000	Request Processed successfully
999	No information available for the request
R01	Not a valid e-BRC
R02	Invalid IEC
R03	Invalid from / to date
R04	Invalid to date
R05	Invalid PAN
R06	Invalid IFSC
R07	No input parameter found
R09	Invalid Shipping bill number
R10	Invalid Shipping bill port code
R11	Invalid shipping bill date
F01	Invalid File format
F04	Schema Check Failed
F05	Signature Verification failed
T01	Server facing Technical Problem. Error while processing.
U01	Invalid User Id.
U02	User not authorized for the operation.

- **List of Currency Codes**

Currency Code	Currency Description
USD	US Dollars
DEM	Deutsch Mark
SGD	Singapore Dollar
CHF	Swiss Franc
GBP	Pound Sterling
JPY	Japanese Yen
HKD	Honkong Dollar
EUR	EURO
ITL	Italian Lira
FRF	French Franc
AUD	Australian Dollar
SEK	Swedish Krona
CAD	Canadian Dollar
BEF	Belgian Franc
DKK	Danish Kroner
FIM	Finish Markka
NOK	Norwegian Kroner
ATS	Austrian Schilling
INR	Indian Rupees
NLG	Dutch Guilder
ACU	Asian Clearing Union Dollar
BHD	Baharin Dinar
SAR	Saudi Arabian Riyal
ZAR	South African Rand
AED	UAE Dirham
KES	Kenya Shilling
NZD	New Zealand Dollar
KWD	Kuwait Dinar
CNY	Chinese Yuan Renminbi
EGP	Egyption Pound
IDR	Indonesion Rupiah
KRW	Korean Won
MYR	Malaysian Ringgi
OMR	Omani Rial
QAR	Qatari Riyal
RUB	Russian Ruble rates
THB	Thai Bhat

- Note: List will be updated as and when changed by Custom.