



Integration of e-BG / e-ISB Event Request API
V 4.2
API Integration Document

API for e-BG /e-ISB Event Request

Introduction:

This API will be used by the Beneficiaries who are availing DDE e-BG/e-ISB service. Beneficiaries who receive huge number of e-BG/e-ISB and prefer to raise the e-BG/e-ISB event requests through the API mode can trigger this API instead of logging to the NeSL IU portal every time.

Request URL:

Below is the end point URL for e-BG/e-ISB Event Request API on which the data is to be submitted:

<https://stg.nesl.co.in/DDEeBGEventAPI/eBGEventRequest/request>

- There is an OAuth implementation in the API considering **JWT token** as an input to the authorization.
- Below is the URL to generate the JWT token:
<https://stg.nesl.co.in/TokenGenerationAPI/authenticate>
- There is a Basic Auth implementation in the API considering **userid:password** as an input to Basic Authentication. The **userid** and **password** will be shared by NeSL.
- The generated authorization token will need to be passed as a request header parameter - **authToken** in the e-BG/e-ISB Event Request API along with the request payload.

Request Parameters:

Below are the request parameters:

SI No	Request Parameter Name	Request Parameter Description	Max Length	Data Type	Mandatory	Description of the field
1	txnid	This will be a unique transaction ID that will be associated with the request.	50	String <i>Except for the below characters, all others are allowed</i> [< > ? / ^ { }]	M	Unique txn ID
2	ebgrefno	This will be the e-BG /e-ISB number for which the request is being submitted	30	String <i>Allowed Special characters</i> _ / - and space	M	eBG/eISB number
3	crdtsubtyp	Credit sub-type (Debt Facility Type)	20	String <i>This will be a pre-defined list of values.</i>	M	Values for e-BG: • GRNT • HeBG (For HeBG, the first event should be either amendment or renewal)

						Values for e-ISB: • eISB • HeISB (For HeISB, the first event should be either amendment or renewal)
4	requestorrltnship	Relationship of the Requestor Party to the e-BG/e-ISB	15	String <i>This will be a pre-defined list of values.</i>	M	Values: • Beneficiary
5	bankuin	Bank PAN	10	String	M	First five characters should be alphabets, next 4 characters should be Numeric and the last character should be alphabet
6	requestorentity	Name of the requesting entity	100	String <i>Allowed Special characters ,!#\$%&()*+,-./:;=?@[^_{} and space</i>	M	Name of the Requestor (entity/ Individual Party)
7	requestoruser	Name of the requestor	100	String <i>Allowed Special characters , . / and space</i>	M	Name of the registered user
8	typofrequest	Type of request	35	String <i>This will be a pre-defined list of values.</i>	M	Values: • Invocation • Partial Invocation • Amendment • Renewal • Closure • Cancellation • Extend or Pay • Withdrawal
9	invctnamnt	The invocation amount of the e-BG/e-ISB. This will be applicable only in case of invocation, partial invocation and Extend or Pay events.	19	Decimal (16,2)	CM	Invocation amount
10	extperiod	The extension period of the e-BG/e-ISB. This will be applicable only	10	String (yyyy-MM-dd)	CM	New expiry date of the e-BG

		in case of Renewal and Extend or Pay events.				
11	accholdername	Beneficiary account holder name. This will be applicable only in case of invocation, partial invocation and Extend or Pay events.	100	String <i>Allowed Special characters , . / and space</i>	CM	This parameter will be applicable when request type is Partial Invocation, Invocation and extend or pay
12	accnumber	Beneficiary Account Number. This will be applicable only in case of invocation, partial invocation and Extend or Pay events.	50	Numeric	CM	This parameter will be applicable when request type is Partial Invocation, Invocation and extend or pay
13	bankname	Beneficiary Bank Name. This will be applicable only in case of invocation, partial invocation and Extend or Pay events.	50	String	CM	This parameter will be applicable when request type is Partial Invocation, Invocation and extend or pay
14	ifsccode	Beneficiary Bank IFSC Code. This will be applicable only in case of invocation, partial invocation and Extend or Pay events.	30	String <i>No special characters allowed</i>	CM	This parameter will be applicable when request type is Partial Invocation, Invocation and extend or pay
15	cnctprsnm	Name of the person who can be contacted	100	String <i>Allowed Special characters , . / and space</i>	O	Name of the person who can be contacted
16	dept	Department of the contact person	30	String <i>Allowed Special characters , . / - and space</i>	O	Department of the contact person
17	cnctnumber	Mobile Number of the contact person	10	String	O	Mobile number of the contact person
18	emailid	Email Address of the contact person	100	String <i>Allowed Special characters _ - .</i>	O	Email Address of the contact person
19	docData	This will have the base 64 encoded value of the digitally signed documents that requestor wishes to submit as part of the	NA	String	O	Base64 encoded value of PDF document

		event request. The request will get rejected if the document is not digitally signed.				
20	rmrks	Remarks from the beneficiary about the event request, if any.	1000	String	O	Remarks from the beneficiary about the event request, if any.
21	wthdrw_rqsttyp_ID	Txn_id of event request, which has to be withdrawn. Mandatory if the <i>typofrequest</i> is "withdrawal"	50	String <i>Except for the below characters, all others are allowed</i> [<>?/^{}]	CM	Txn_id of event request, which has to be withdrawn. Mandatory if the <i>typofrequest</i> is "withdrawal"

Request JSON Payload (For New Request):

```
{
  "txnid" : "ABCD1234",
  "ebgrefno" : "eBG1234",
  "invctnamnt" : "100000.00",
  "typofrequest" : "Invocation",
  "crdtsubtyp" : "GRNT",
  "requestorrltnship" : "Beneficiary",
  "requestorentity": "sfdggvsjdjssj",
  "bankuin" : "XXXXX1111X",
  "requestoruser" : "JaBene",
  "extperiod" : "2023-07-01",
  "accholdername" : "ghgsdhaghs",
  "accnumber" : "564674785895",
  "bankname" : "XXX Bank",
  "ifsccode" : "FGHJY0000023",
  "cnctprsnm" : "gdgfhdsjhjsjdh",
  "dept" : "dgshghgshashjsh",
  "cnctnumber" : "9898989998",
  "emailid" : "abc@abc.co.in",
  "docData" : "Base 64 encoded value of the digitally signed document.",
  "rmrks" : "Invoked"
}
```

Request JSON Payload (For Request Withdrawal):

```
{
  "txnid": "TXNYY",
  "ebgrefno": "eBG1234",
  "bankuin": "XXXXX1111X",
  "typofrequest": "Withdrawal",
  "crdtsubtyp": "GRNT",
  "requestorrltnship": "Beneficiary",
  "requestorentity": "sfdggvsjdjssj",
  "requestoruser": "JaBene",
  "rmrks": "Withdraw check",
  "wthdrw_rqsttyp_ID": "ABCD1234"
}
```

Encrypted Request JSON:

Clients will digitally sign the unencrypted request payload using their private certificate.

```
{
  "sessionId" : "ghegjskjakjkJAKJaksdsdghjhg",
  "ciphertext" :
  "hdgydfryewtysYFAYSGYDFGDGSGAgashdegfgdgGuarogfjdzsyugiirur,
  "digisign" :
  "sdjgfjksdfjwelhrowernsdfbsdkljfjasb2342asklfbsdklbfdsldfsl;
  fsdlfsdklfbksdbfsdklfbksdfbksdbf;sdfwsehrowehrlsdbnfkbsdfbsd
  kfbsdkfbsdkfbsdkl"
}
```

sessionId	The session ID is a randomly generated value. This session ID will be encrypted using RSA algorithm using NeSL's public certificate and the encrypted session ID will be passed as part of the request payload
Ciphertext	Client will encrypt the request json object using a 32-bit unencrypted session ID as the key using AES algorithm with CBC mode and IV parameter of length 16.

	IV parameter can be determined by taking the first 16 bytes of the decoded session ID value.
Digisign	This is the digital signature value by taking the hash of the unencrypted request json payload. This will be done using the Clients's private key.

Response Parameters:

Below are the response parameters:

Field Name	Description
txnid	This is the same txn_id that was passed as part of the request
ebgrefno	This is the same e-BG_ref_no /e-ISB_ref_no that was passed as part of the request
responsecode	This will have one of the following values: • 1 [In case of Success] • Appropriate Error code will be returned in case of failure
responsemsg	Corresponding message based on the response code

Response Payload:

Success response :

```
{
  "txnid" : "ABCD1234",
  "ebgrefno" : "eBG1234",
  "responsecode" : "1",
  "responsemsg" : "Success"
}
```

Failure response :

```
{
  "txnid" : "ABCD1234",
  "ebgrefno" : "eBG1234",
  "responsecode" : "ER001",
  "responsemsg" : "Not an Authorised user."
}
```

Encrypted Response JSON

NeSL will digitally sign the unencrypted response payload using NeSL's private certificate.

```
{
```

```

"sessionId" : "ghegjksjakjkJAKJaksdsdghjhg",
"ciphertext" : "hdgydfryewtysYFAYSGYDFGDGSGA
gashdegfgdgGuarogfjdzugiirur",
"digisign" :
"sdjgfjksdfjwelhrowernsdfbsdkljfjasb2342asklfbsdklbfdsldfddl;
fsdlfsdklfbksdbfsdklfbksdfbksdbf;sdfwsehrowehrlsdbnfbksdfbsd
kfbksdkfbksdkfbksdkl"
}

```

sessionId	The session ID is a randomly generated value. This session ID will be encrypted using RSA algorithm using Client's public certificate and the encrypted session ID will be passed as part of the response payload
Ciphertext	NeSL will encrypt the response json object using a 32-bit unencrypted session ID as the key using AES algorithm with CBC mode and IV parameter of length 16. IV parameter can be determined by taking the first 16 bytes of the decoded session ID value.
Digisign	This is the digital signature value by taking the hash of the unencrypted response json payload. This will be done using the NeSL's private key.

List of error codes:

Sl No	Error Code	Error description
1	ER001	Not an Authorised user.
2	ER002	Missing input parameters.
3	ER003	Invalid input parameters.
4	ER004	Duplicate transaction id.
5	ER005	Invalid JSON request.
6	ER006	Unable to raise the event request, since you are not a {0} for this e-BG /e-ISB Reference number.
7	ER007	Invalid Digital Signature.
8	ER008	Unable to process the request.
9	ER009	Unable to verify Signed pdf, since signature is not valid or signature is not available.

10	ER010	Unable to raise the event request, since the e-BG/e-ISB Reference number is not found against the specified Issuing Bank.
11	ER011	Existing e-BG/e-ISB event should be completed before processing new event.
12	ER012	e-BG/e-ISB has already been cancelled or closed.
13	ER013	The e-BG/e-ISB request is in progress or already invoked.