NATIONAL E-GOVERNANCE SERVICES LIMITED
(UNION GOVERNMENT COMPANY)

Integration of eBG Notification API
V 1.2
API Integration Document

API for eBG Notification

Introduction:

This API will be published by the clients who are consuming the DDE eBG service, and NeSL will trigger this API when the eBG event is executed using the DDE application or the request is raised through the IU portal.

Request URL:

To be shared by the clients.

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 publishing parties. This will be passed as part of the API header.

JSON field details

Below are the details of the JSON request parameters.

Sl. No	Request Parameter Name	Request Parameter Description	Max length	Data Type	Mandatory	Description of the field
1	txn_id	Transaction ID	10	Alphanumeric	M	Unique transaction id of the API transaction.
2	dde_sbmtr_txnid	DDE Submitter Transaction ID	50	Alphanumeric + Special characters	CM	The issuing bank submitter transaction ID as part of the DDE API request.
3	executed_dt	DDE executed timestamp	NA	Date/Time YYYY-MM-DD HH:MM:SS	CM	DDE executed timestamp
4	portal_id	Portal ID	100	Alphanumeric	O	Name of the Portal ID or App ID of the beneficiary application, wherever applicable
Party Details Section						
5	name	Party name	100	Alphanumeric	M	Name of the individual party/ Name of the entity.
6	ovdtype	Officially valid document type	20	This will be a pre-defined list of values.	M	**Values:** • panno

						(Where PAN is not applicable, then the UIN allotted by NeSL will be available) • driving license • voter id • passport • others
7	ovdid	Officially valid document ID value	30	Alphanumeric	M	The value of the corresponding ovd id
8	reltocntrct	Relationship of the party	NA	This will be a pre-defined list of values	M	**Values:** • Debtor • Guarantor • Co-Obligant • Creditor • Beneficiary *(For eBG, Debtor is Applicant, Creditor is Issuing Bank)*
9	bucode	Business Unit Code	30	Alphanumeric	O	This will be the Business Unit Code of the party.
10	enttyfreetxt1	Flexi field 1*	100	Alphanumeric	O	Flexi field 1
11	enttyfreetxt2	Flexi field 2*	100	Alphanumeric	O	Flexi field 2
12	enttyfreetxt3	Flexi field 3*	100	Alphanumeric	O	Flexi field 3
13	enttydtvalue4	Flexi field 4*	NA	Date format (yyyy- MM-dd)	O	Flexi field 4
14	enttydtvalue5	Flexi field 5*	NA	Date format (yyyy- MM-dd)	O	Flexi field 5
* *Any key information of the eBG shared by bank*						
Loan Details Section						
15	loanno	eBG reference number	30	Alphanumeric	M	eBG reference number
16	snctnamt	Sanction amount	19	Numeric (16,2)	M	Original BG amount
17	currofsanc	Sanction Currency	NA	This is a list of value	M	3 char currency code as per ISO 4217 standards e.g. INR, USD, EUR, JPY etc.
18	toutstndamt	Total Outstanding Amount	19	Numeric (16,2)	O	Latest Outstanding Amount of eBG

19	currofdebt	Currency of Outstanding	NA	This is a list of value	O	3 char currency code as per ISO 4217 standards e.g. INR, USD, EUR, JPY etc.
20	crdtsubtyp	Credit sub-type (Debt Facility Type)	NA	This is a list of value	M	**Values:** • GRNT • HeBG (For HeBG, the first event should be either amendment or renewal)
21	event	Bank Guarantee events	NA	This will be a pre-defined list of values.	M	**Values:** • Issuance • Amendment • Renewal • Partial Invocation • Invocation • Cancellation • Closure • Court injunction
22	expiry_date	Expiry date of the eBG	10	Date format (yyyy- MM-dd)	O	Expiry date of the eBG
23	claimexpirydate	Claim expiry date of the eBG	10	Date format (yyyy- MM-dd)	O	Claim expiry date of the eBG
24	remarkparta	eBG Remarks	1000	Alphanumeric	O	eBG Remarks if any
25	contractrefno	Vendor Contract Reference Number	50	Alphanumeric	O	Vendor Contract Reference Number
26	vendorcode	Vendor Code	50	Alphanumeric	O	Vendor Code
27	lndtlsfreetxt1	Flexi field 6*	100	Alphanumeric	O	Flexi field 6
28	lndtlsfreetxt2	Flexi field 7*	100	Alphanumeric	O	Flexi field 7
29	lndtlsfreetxt3	Flexi field 8*	100	Alphanumeric	O	Flexi field 8
30	lndtlsdtvalue4	Flexi field 9*	NA	Date format (yyyy- MM-dd)	O	Flexi field 9
31	lndtlsdtvalue5	Flexi field 10*	NA	Date format (yyyy- MM-dd)	O	Flexi field 10
** Any key information of the eBG shared by bank*						
Request Details Section - This is an optional section and is required only if there is a request raised in the IU portal/ Event Request API.						
32	rqstid	Request ID	50	Alphanumeric	M	The request ID generated by NeSL Portal/ Event request API.

33	rqstsrc	Source of the Request	30	Alphanumeric	M	**Values:** • NeSLPortal • API • Portal ID (e.g., GePNIC, GeM etc.)
34	requestorrltnship	Relationship of the Requestor Party to the eBG	30	List of values	M	**Values:** • Beneficiary • Debtor
35	typofrequest	Type of Request/Bank response on request	NA	This will be a pre-defined list of values.	M	**Values:** • Amendment • Partial Invocation • Invocation • Cancellation • Closure • Extend or Pay • Renewal • Withdrawal **Following values will be available when notification is shared with beneficiary about the bank action** • Amendment-Accepted • Amendment-Rejected • Partial Invocation-Accepted • Partial Invocation-Rejected • Invocation-Accepted • Invocation-Rejected • Cancellation-Accepted • Cancellation-Rejected • Closure-Accepted • Closure-Rejected • Extend or Pay-Accepted • Extend or Pay-Rejected • Renewal-Accepted • Renewal-Rejected

36	invctnamnt	Invocation Amount	19	Numeric (16,2)	CM	Invocation Amount (This value will be applicable when request type is partial invocation, invocation and extend or pay)
37	remarks	Request Remarks	500	Alphanumeric	M	Remarks by requestor while raising request/ Remarks by bank against the request raised by requestor
38	requestorentity	Requestor entity	100	Alphanumeric	M	Name of the Requestor (entity/ Individual Party)
39	requestoruser	Requestor user	100	Alphanumeric	M	Name of the registered user
40	extnperiod	Extension Period	NA	Date format (yyyy- MM-dd)	CM	The extension period of the eBG. This will be applicable only in case of Renewal and extend or pay events.
41	accholdername	Beneficiary account holder name	100	Alphanumeric	CM	This parameter will be applicable when request type is Partial Invocation, Invocation and extend or pay
42	accnumber	Beneficiary Account Number	50	Numeric	CM	
43	bankname	Beneficiary Bank Name	50	Alphanumeric	CM	
44	ifsccode	Beneficiary Bank IFSC Code	30	Alphanumeric	CM	
45	cnctprsnnm	Contact Person Name	100	Alphanumeric	O	Name of the person with whom bank can co-ordinate for any clarification
46	dept	Department	30	Alphanumeric	O	Department of the contact person
47	cnctnumber	Contact Number	10	Numeric	O	Mobile number of the contact person
48	emailid	Email ID	100	Alphanumeric	O	Email ID of the contact person
49	rqstdt	Request Date/Time	NA	Date/Time YYYY-MM-DD HH:MM:SS	M	Date and time of request raised to bank/Date and time of bank's action on the request

50	notfcndlvystts	NeSL Delivery Status	NA	List of values	O	Status of the delivery of event request to bank by NeSL **Values:** • Success • Failed
51	notfcndlvydt	NeSL Delivery Date & Time	NA	Date/Time YYYY-MM-DD HH:MM:SS	O	Date and Time of delivery of event request to bank by NeSL
52	docData	Document data/value	NA	Alphanumeric	O	Base64 encoded value of PDF document
53	wthdrw_rqsttyp_ID	Txn_id of event request, which has to be withdrawn.	50	Alphanumeric	CM	Mandatory if the *typofrequest* is "withdrawal"

Sample Request JSON for DDE API events:


```
{
     "txn_id": "ABCD1234",
     "dde_sbmtr_txnid": "2023648446033773",
     "executed_dt": "2023-01-02 19:10:30",
     "portal_id": "ABCD",
     "party_dtls": [{
          "name": "Singh Contractors Ltd",
          "ovdtype": "panno",
          "ovdid": "AAACA0003B",
          "reltocntrct": "debtor",
          "bucode":"",
          "enttyfreetxt1":"",
          "enttyfreetxt2":"",
          "enttyfreetxt3":"",
          "enttydtvalue4":"",
          "enttydtvalue5":""
     },
     {
          "name": "NPD Pvt Ltd",
          "ovdtype": "panno",
          "ovdid": "AAACA0005B",
          "reltocntrct": "Beneficiary",
          "bucode":"",
          "enttyfreetxt1":"",
          "enttyfreetxt2":"",
          "enttyfreetxt3":"",
          "enttydtvalue4":"",
          "enttydtvalue5":""
     },
     {
          "name": "ABC Bank",
```

```
            "ovdtype": "panno",
            "ovdid": "AAACA0007B",
            "reltocntrct": "Creditor",
            "bucode":"",
            "enttyfreetxt1":"",
            "enttyfreetxt2":"",
            "enttyfreetxt3":"",
            "enttydtvalue4":"",
            "enttydtvalue5":""
      }],
      "loandtls": [{
            "loanno": "EBG006",
            "snctnamt": 3000000.00,
            "currofsanc": "INR",
            "toutstndamt": 20000.00,
            "currofdebt":"INR",
            "crdtsubtyp":"GRNT",
            "event": "Issuance",
            "expiry_date": "2028-07-09",
            "claimexpirydate": "",
            "remarkparta":"",
            "contractrefno":"TNDR001",
            "vendorcode":"VC0001",
            "lndtlsfreetxt1":"",
            "lndtlsfreetxt2":"",
            "lndtlsfreetxt3":"",
            "lndtlsdtvalue4":"",
            "lndtlsdtvalue5":""
      }]
}
```


Sample Request JSON for IU Portal/ Event Request API (For New Event):


```
{
      "txn_id": "ABCD12334",
      "portal_id": "ABCD",
      "party_dtls": [{
            "name": "Singh Contractors Ltd",
            "ovdtype": "panno",
            "ovdid": "AAACA0003B",
            "reltocntrct": "debtor",
            "bucode":"",
            "enttyfreetxt1":"",
            "enttyfreetxt2":"",
            "enttyfreetxt3":"",
            "enttydtvalue4":"",
            "enttydtvalue5":""
      },
      {
            "name": "NPD Pvt Ltd",
            "ovdtype": "panno",
```

```
        "ovdid": "AAACA0005B",
        "reltocntrct": "Beneficiary",
        "bucode":"",
        "enttyfreetxt1":"",
        "enttyfreetxt2":"",
        "enttyfreetxt3":"",
        "enttydtvalue4":"",
        "enttydtvalue5":""
    },
    {
        "name": "ABC Bank",
        "ovdtype": "panno",
        "ovdid": "AAACA0007B",
        "reltocntrct": "Creditor",
        "bucode":"",
        "enttyfreetxt1":"",
        "enttyfreetxt2":"",
        "enttyfreetxt3":"",
        "enttydtvalue4":"",
        "enttydtvalue5":""
    }],
    "loandtls": [{
        "loanno": "EBG006",
        "snctnamt": 3000000.00,
        "currofsanc": "INR",
        "crdtsubtyp":"GRNT",
        "toutstndamt": 20000.00,
        "currofdebt":"INR",
        "event": "Issuance",
        "expiry_date": "2028-07-09",
        "claimexpirydate": "",
        "remarkparta":"",
        "contractrefno":"TNDR001",
        "vendorcode":"VC0001",
        "lndtlsfreetxt1":"",
        "lndtlsfreetxt2":"",
        "lndtlsfreetxt3":"",
        "lndtlsdtvalue4":"",
        "lndtlsdtvalue5":""
    }],
    "requestdtls": {
        "rqstid":"ABCD1234",
        "rqstsrc" : "API",
        "requestorrltnship" : "Beneficiary",
        "typofrequest": "Invocation",
        "invctnamnt": 3000000.00,
        "remarks": "Request to Invoke",
        "requestorentity": "NPD Pvt Ltd",
        "requestoruser": "RAJESH",
        "extperiod" : "2023-07-01",
        "accholdername" : "NPD Pvt Ltd",
```

```
            "accnumber" : "564674785895",
            "bankname" : "XXX Bank",
            "ifsccode" : "FGHJY0000023",
            "cnctprsnnm" : "RAJESH",
            "dept" : "Account",
            "cnctnumber" : "9XXXXXXXXX",
            "emailid" : "abc@abc.co.in",
            "rqstdt": "2023-07-11 17:51:50",
            "docData" : "----Base64 encoded string value ---"
      }
}
```

Sample Request JSON for IU Portal/ Event Request API (For Withdrawal):

```
{
      "txn_id": "ABCD56798",
      "portal_id": "ABCD",
      "party_dtls": [{
            "name": "Singh Contractors Ltd",
            "ovdtype": "panno",
            "ovdid": "AAACA0003B",
            "reltocntrct": "debtor",
            "bucode":"",
            "enttyfreetxt1":"",
            "enttyfreetxt2":"",
            "enttyfreetxt3":"",
            "enttydtvalue4":"",
            "enttydtvalue5":""
      },
      {
            "name": "NPD Pvt Ltd",
            "ovdtype": "panno",
            "ovdid": "AAACA0005B",
            "reltocntrct": "Beneficiary",
            "bucode":"",
            "enttyfreetxt1":"",
            "enttyfreetxt2":"",
            "enttyfreetxt3":"",
            "enttydtvalue4":"",
            "enttydtvalue5":""
      },
      {
            "name": "ABC Bank",
            "ovdtype": "panno",
            "ovdid": "AAACA0007B",
            "reltocntrct": "Creditor",
            "bucode":"",
            "enttyfreetxt1":"",
            "enttyfreetxt2":"",
            "enttyfreetxt3":"",
            "enttydtvalue4":"",
```

```
            "enttydtvalue5":""
      }],
      "loandtls": [{
            "loanno": "EBG006",
            "snctnamt": 3000000.00,
            "currofsanc": "INR",
            "crdtsubtyp":"GRNT",
            "toutstndamt": 20000.00,
            "currofdebt":"INR",
            "event": "Issuance",
            "expiry_date": "2028-07-09",
            "claimexpirydate": "",
            "remarkparta":"",
            "contractrefno":"TNDR001",
            "vendorcode":"VC0001",
            "lndtlsfreetxt1":"",
            "lndtlsfreetxt2":"",
            "lndtlsfreetxt3":"",
            "lndtlsdtvalue4":"",
            "lndtlsdtvalue5":""
      }],
      "requestdtls": {
            "rqstid":"XYZ1234",
            "rqstsrc" : "API",
            "requestorrltnship" : "Beneficiary",
            "typofrequest": "WITHDRAWAL",
            "remarks": "WITHDRAWAL",
            "requestorentity": "NPD Pvt Ltd",
            "requestoruser": "RAJESH",
            "rqstdt": "2023-07-11 17:51:50",
            "docData" : "----Base64 encoded string value ---",
            "wthdrw_rqsttyp_ID":"ABCD1234"
      }
}
```


Encrypted Request JSON:

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


```
{
"sessionId" : "ghegjskjakjkJAKJaksdsdghjhg",
"ciphertext" :
"hdgydfryewtysYFAYSGYDFGDGSGAgashdegfgdgGuarogfjdzsyugiirur,
"digisign" :
"sdjgfjksdfjwelhrowernsdfbsdkljfjasb2342asklfbsdklbfsdlfsdl;fs
dlfsdklfbksdbfsdklfbksdfbksdbf;sdfwsehrowehrlsdbnfkbsdfbsdkfbs
dkfbsdkfbsdkl"
}
```

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 request payload
ciphertext	NeSL 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 NeSL's private key.

Response Parameters:

Below are the response parameters:

Sl No	Parameter Details	Parameter Name	Field Type	Description
1	Transaction ID	txn_id	Alpha Numeric	Unique Transaction id sent in the API request.
2	Response code	response_code	Alpha Numeric	Response code.
3	Response Message	response_msg	Alpha	Response Message.

Response Payload:

Success response :

```
{
        "txn_id" : "ABCD1234",
        "response_code" : "1",
        "response_msg" : "Success"
}
```

Failure response :

```
{
        "txn_id" : "ABCD1234",
        "response_code" : "ER001",
        "response_msg" : "Not an Authorised user."
}
```

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.