



E-Invoice ASP/GSP Encryption/Decryption Utility

Version 1.0

**September 23, 2020
BDO India LLP - Technology Services**

Revision History

<i>Revision</i>	<i>Revision Date</i>	<i>Description of Change</i>
v1.0	Sept 23, 2020	Initial Document

List of API

Sl No.	API Service	API Description
1.	Get App key	http://localhost:8080/getappkey
2.	Encrypt with NIC Key	http://localhost:8080/encryptWithNICkey
3.	Encrypt with BDO Key	http://localhost:8080/encryptWithBDOkey
4.	Decrypt sek	http://localhost:8080/decryptsek
5.	Encrypt Payload	http://localhost:8080/encryptPayload?decryptedSek=ss
6.	Decrypt Response	http://localhost:8080/decryptResponse?decryptedSek=ss

Setup Property File :

bdo.public.key.path=<path>/Public_EInvoice_Sandbox_New.pem

nic.public.key.path=<Path>/nic_public_key.key

1) GET App Key

01_getapp_key Examples 0 BUILD

GET http://localhost:8080/getappkey Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 20 ms Size: 148 B Save Response

Pretty Raw Preview Visualize Text

```
1 eS8hVm8TV0buneUieTDgYo122Z41Ud5J
```

2) Encrypt with NIC Key

02_encryptWithNICKey Examples 0 BUILD

POST http://localhost:8080/encryptWithNICKey Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1 BDO2020

Body Cookies Headers (3) Test Results Status: 200 OK Time: 25 ms Size: 461 B Save Response

Pretty Raw Preview Visualize Text

```
1 j3kch1pBGHxXvyjbp26iWg1280v1dai+q9rRQ5ALJ9Qkt6WZTDe8iSx5Am3tcQoS8+bb7gM64L0mroxdDyrpZ1UfgTwo1e
+SIzVLGUR5pUkMyuc2o8fSORw0dTCGCBpBdEqEvnW106n6g32fP2aaToffIEfWJcNXqzisA6mUwmIs9ixS1j0JSBby8eP1oc0kAZod6K6WkX0c98RYnY37zAxxhic
+U1VIqMdDdSNf6yh7gGhtnbLLnZ1sabvg3YRP9KD7Ez1IzvrYAxDNgjtNr81NXYbH5cyoRFsGxVT8nA2qb9oAFhJgtK5He6ODQKNzTFuIPgwcV6g8UvxIt3HHig==
```

Bootcamp Build Browse

3) Encrypt with BDO Key

03_encryptWithBDOkey

Examples 0 BUILD

POST http://localhost:8080/encryptWithBDOkey Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1 2tQFDscEU7v25d54d7FdpGUKm68xF1y

Body Cookies Headers (3) Test Results Status: 200 OK Time: 14 ms Size: 801 B Save Response

Pretty Raw Preview Visualize Text

1 DcrS6Ma29rw3Ych1EtMeHkeZEBYZTp1pHNP4YalMJ98HV7jYfotIe+UHuGXWd13KUap44e0/f1Dqq
+iS1tu7829thkHmDsX8KKn8K43RhtnOjzf87AmGZAexkX1iW9PwR5w8pd1u0IA1QwDu93h0TIuHEE2R12MuamR51iArxa2vdxTLFhJGTntFn1qS6Qs95v76q1xxbQ0vXg
+Trg5g514Qr8yzQXGYqEOGBemanORQKND5foVclixyW1gJAYuOPTnWJa14XrcpJwbHu3QEX08BdGFz7YJf8UicZVZZIs+IIinxZd7F+mwfDfaw0dPjPfH
+YdMmkb17Qk0sK21F0g/DiG5PgsVeA1SdmW50Jfz11J2vPb4x05rPmrASUTNcJCaNYXH0Co
+7KwRfvyKkjwVhXdyZ5pcrQUC9WEm1GLbVsuCbN7L6uTKGQVFPmMlrXAt1UdkQNbZU87sAl063pPeI0WfSav52Tpynxr/iIv0cMqsHCPWgCihPubXtcFFyiuYI3e5Y1wU
+oXhzbzj9zheT/6J356Z7ac3YtiPzpf2bRuVpAudnXw1DobZHUJRvU9uybDmMD1FwAXgUP4JAMmL6pZ9YRhs4IuHC6tZYrst110W9k/nR+pAy2D0f1FSG/j96/5qhv8/
Xg4kUbk0grj2cdZKMcEqEyCTUYytZ0=

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4) Decrypt Sek

04_decryptsek

Examples 0 BUILD

POST http://localhost:8080/decryptsek Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1 appkey : 2tQFDscEU7v25d54d7FdpGUKm68xF1y sek : UG51Q3p5Un1tbXWv0Fjd1h0M0tu0W9VbmVvdWlEwY3M=

Body Cookies Headers (4) Test Results Status: 400 Bad Request Time: 33 ms Size: 555 B Save Response

Pretty Raw Preview Visualize JSON

5) Encrypt Payload

05_Encrypt Payload

Examples 0 BUILD

POST http://localhost:8080/encryptPayload?decryptedSek=NU1kUE1BWEpLNHJmTGFQSWRIUGN1REZmY3dmc1ViYVA%3D Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```

1 {
2   "TranDt1s": {
3     "TaxSch": "GST",
4     "SupTyp": "B2B",
5     "RegRev": "N",
6     "EcmGstin": null,

```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 24 ms Size: 5.49 KB Save Response

Pretty Raw Preview Visualize Text

```

1 gqr/coImR10N1ADAq1XyzgA17QU7Gv2Jt/Z9u+UxMV8B79QTr3qDRKZydljcSgqLHADnnvajtwfMNR347eELKnZVV9iD6rJ1IqOGnNwVIXu4Fz75x54tU0cnCm10GKTPRdMytyUZF4J
+ITzuURvc/5SEhRLSkDJQD5v8zaAjkv
+Cdjo6pXk79nOCukQde1eF8qoSM1NrL8E1z82UTQpowgtuZ5jjR5WFr2Pyq0m8exvTaP0oNwYUtQVRQprzQemN8N15ceX1J3HGKJg1gWpemBnzUufRn7wLyQjL79NtPKvIwXHxpp
qk+15rO7PSPU10A0qmdT0BKtZeJmhxmR9XeD2ffkxvFudX9OuPYuGd2eKp09xoBG9A/BuBJ8FjyAQqVSkusq4PdFgggbAHvW/FZFJee2AJITLF/3L2MsdCDDI/Ma
+v9mTf3RRf6wU95+ZhxxvcB1SIGvKYp1/ok1F08oem0/AavjzZiYtFOUtE6B6Hz8MpDtw40vhPmV8iJ7mUHqQ00nq7XII6iReq+X+nv+41YEJgkx+AI1NRpW4BI
+HcYns79u1tPYZHWfEjYtQmJbJG3Mcd7EVTFQajcxpIu
+nAE2B0SajYA1UVqTIX29806gJiuaF5fnwmkQNeojyTea9u5gHc6soFolIoiesIeZ11mFaI8ZMv2N2TV8HQ6tKnUIzHFwJm4Au1JvEICMnpMshE3ZYMYFCjaJsbNHrxrTkwxRrjNW

```

6) Decrypt Payload

06_decryptNicResPayload

Examples 0 BUILD

POST http://localhost:8080/decryptResponse?decryptedSek=NU1kUE1BWEpLNHJmTGFQSWRIUGN1REZmY3dmc1ViYVA= Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies C

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk E
<input checked="" type="checkbox"/> decryptedSek	NU1kUE1BWEpLNHJmTGFQSWRIUGN1REZmY3dmc1 ...			
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 500 Internal Server Error Time: 28 ms Size: 368 B Save Response

Pretty Raw Preview Visualize JSON

```

1

```