2018

E-Way Bill System

EWB-API - Technical Document for Tax Payers / Transporters / GST Suvidha Providers



Changes in Version 1.02.01 (Dated 14.05.2018)

1. Some changes in the request and response JSONs, some data structure items and schema are updated in the document to sync. with the application

Changes in this Version 1.02 (Dated 27.04.2018)

1. Incorporation of new features in e-way bill generation
2. New API to update transporter ID
3. New API to extend validity
4. New API to regenerate consolidated E Way Bill API
5. New API to get details of GSTIN for a given GSTIN
6. New API to get enrolled transporter’s details for given Transin
7. New API to get HSN details for a given HSN code
8. Master codes list updated
9. API Error code list updated
10. Validations are provided for each of the APIs

Changes in this Version (1.01)

1.     The ‘Generate e-way bill’ and ‘update Vehicle Number’ APIs respond with the additional information of Validity of the e-way bill.

2.     The additional information ‘Vehicle Type’ (Regular -R or Over Dimensional Cargo-O) needs to be passed in ‘Generate e-way bill’ API.

3.      The Get APIs (except Get Cons. EWB)  will have additional columns

a.       validUpto – Validity of the e-way bill

b.      rejectStatus– Y in case other party has rejected the e-way bill

c.       extendedTimes – No of times the e–way bill has got the extension

d.      delPlace – Delivery Place of the e-way bill

e.      status – whether e-way bill is Active (ACT) or Cancelled (CNL)

4.     Schema for the JSON data has been provided

5.      Sample .NET CODE for Encryption and Decryption functions have been provided

6. Sample Java Code for Encryption and Decryption functions have been provided

7.      Changed Master codes for Unit Quantity Code, State Code, and Document Type have been provided. They match with the GSTN Codes.

8.      New master codes have been added.

9.      Error Codes have been improved.

10.   URL and version has been changed.

11.  Compulsory fields are limited to Web page.

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|  |
| --- |
| List of Abbreviations |
|  |  |  |  |
|  | Abbreviation | Full Form |  |
|  |  |  |  |
|  | API | Application Program Interface |  |
|  |  |  |  |
|  | CGST | Central Goods and Service Tax |  |
|  |  |  |  |
|  | CKD | Completely Knocked Down |  |
|  |  |  |  |
|  | EBN | e-way bill Number |  |
|  |  |  |  |
|  | EWB | e-way bill |  |
|  |  |  |  |
|  | GSP | Goods and Services Tax Suvidha Provider |  |
|  |  |  |  |
|  | GST | Goods and Services Tax |  |
|  |  |  |  |
|  | GSTIN | Goods and Services Tax Identification No |  |
|  |  |  |  |
|  | GSTN | Goods and Services Tax Network |  |
|  |  |  |  |
|  | GSTR-1 | Goods and Services Tax Form -1 |  |
|  | HSN | Harmonized System of Nomenclature |  |
|  |  |  |  |
|  | ICT | Information and Communication Technology |  |
|  |  |  |  |
|  | IGST | Integrated Goods and Services Tax |  |
|  |  |  |  |
|  | IT | Information Technology |  |
|  |  |  |  |
|  | MIS | Management Information System |  |
|  |  |  |  |
|  | NIC | National Informatics Centre |  |
|  |  |  |  |
|  | OTP | One Time Password |  |
|  |  |  |  |
|  | PAN | Permanent Account Number |  |
|  |  |  |  |
|  | QR | Quick Response |  |
|  |  |  |  |
|  | RFID | Radio-Frequency identification Device |  |
|  |  |  |  |
|  | SGST | State Goods and Services Tax |  |
|  |  |  |  |
|  | SKD | Semi Knocked Down |  |
|  |  |  |  |
|  | URL | Uniform Resource Locator |  |
|  |  |  |  |

# Introduction

1.1 **Background**

Introduction of Goods and Services Tax (GST) across India with effect from 1st of July 2017 is a very significant step in the field of indirect tax reforms in India. For quick and easy movement of goods across India without any hindrance, all the check posts across the country are abolished. The GST system provides a provision of e-Way Bill, a document to be carried by the person in charge of conveyance, generated electronically from the common portal. To implement the e-Way Bill system, ICT based solution is required. Hence, as approved by the Goods and Services Tax (GST) Council, a web based has been designed and developed by National Informatics Centre and it is being rolled out for the use of taxpayers and transporters. Also, the other modes of e-way bill generation rolled out are SMS based, Android based and API based solutions.

1.2 **Purpose and Intended Audience**

This document aims to explain the operational and technical procedure on how to use API interface to generate the e-Way Bills by the Tax payers or Transporters.

This document is intended for technical experts or software solutions providers of tax payers or transporters, who are already using a computerized system for generating invoices and also generating a large number of invoices. The best method of EWB generation for such large tax payers, who generate the large number of e-Way Bills, is to build API interface with the E-way bill system. This is site-to-site integration of the systems for e-way Bill generation. In this method, the tax payer system will directly or through GSP request e-way bill to the E-way Bill system while generating invoice and get the e-Way Bill number. This can be printed on the Invoice document and movement of the goods can be started. This avoids duplicate data entry and eliminates data entry mistakes. To use this facility, the tax payers have to request the online for this service.

1.3 **Scope**

This document covers APIs published by E-way bill system. It includes API description with detailed payloads to be exchanged. The details of various APIs for of Authentication, E-way bill generation, Consolidated E-way bill generation, Vehicle No. updation, Cancellation of e-way bill, Rejection of e-way bill are explained in detail along with sample source code in C# .Net for better understanding for the tax payers and transporters.

This document also includes

* Interface Business Flow Process
* API format and brief details on key payload parameters.
* The attribute level description of each API request and response payload.
* JSON schema and sample JSON payload for respective APIs.
* API data structure Specification
* Sample C#.net and Java code
* Various Master codes and error codes are listed in the Annexures
* JSON Schema

**1.4 Related documents to read**

* EWB-API Interface User Document – This is available on the web-site of e-way bill system

**1.5 URL or Web site address for API for Pre-production**

http://ewaybill2.nic.in/ewaybillapi/v1.02

# API Overview

The EWAYBILL APIs are used to communicate between Tax Payers or Transporters Systems with E-way bill System. This section describes standards and formats which will be used to define API exposed by E-WAY BILL systems. E-WAY BILL APIs will be implemented as RESTFul Web services.

Below table depicts the URI pattern to be used while defining API end points:

## API Format

E-WAY BILL APIs will be published as REST web service over HTTPS.

|  |  |
| --- | --- |
| **API URI** | <http://ewaybill2.nic.in/ewaybillapi/v1.02> |
| **HTTP Method** |

|  |  |
| --- | --- |
| GET | To fetch data from E-WAY BILL |
| POST | To submit data to E-WAY BILL |

 |
|  |  |

1. API Format

# 3. Business Process Flow

## 3.1 Authentication Token request service

START

TP System to check availability of valid token in his system

## 3.2 Business Process Flow – Other request Services

TP system prepare request payload for new token with encrypted authentication parameters

**STOP**

TP System gets new TOKEN stores into local DB for further use

EWB system generates new TOKEN and sends to TP System

If available & Valid (generated within last 6 hours)?

Yes

No

Authentication successful?

EWB validates authentication parameters of TP

No

YES

Send Error Message

**Start**

TP System encrypted requests for service from EWB API Service

EWB system processes request and return the result to TP

Is token valid?

EWB checks for validity of token and requests

No

Yes

TP System reads and decrypts result and uses it

**STOP**

# List of E-Way Bill API Services/Methods

|  |  |  |
| --- | --- | --- |
| Sl No. | API Service | API Description |
|  | Authenticate | Authentication with API system with the credential provided to access all other APIs |
|  | Generate E-Way Bill | Generate e-Way Bill |
|  | Update Part-B/ Vehicle Number for E-Way Bill | Update new vehicle number (part-B) for the e-way Bill, whenever, the transportation changes |
|  | Generate Consolidate E-Way Bill | Generate Consolidated e-Way Bill |
|  | Cancel E-Way Bill | Cancel the e-Way Bill, if wrongly generated or purchase order is cancelled. |
|  | Reject E-Way Bill | Reject the e-Way Bill, generated by others on your GSTIN, if it does not belong to you. |
|  | Get e-Way Bill | Get the e-way bill details based on EWB Number, if the requestor is supplier or recipient or transporter |
|  | Get e-way bills assigned for transportation – for a day | Get the list of e-way bills assigned to you (requesting GSTIN) as transporter for transportation for particular generated date in your state. This can be used for Updating Part-B by you as transporter. |
|  | Get e-way bills assigned for transportation – by GSTIN | Get the list of e-way bills assigned to you (requesting GSTIN) for transportation by particular tax payer (GSTIN) and generated date. This can be used for Updating Part-B by you as transporter. |
|  | Get e-way bills generated by other party  | Get the list of e-way bills generated by other parties on your name (requesting GSTIN) based on generated date. This can be used by you for rejecting ., if e-way bills do not belong to you.  |
|  | Get Consolidated E-Way Bills | Get the Consolidated e-Way Bill details based on consolidated EWB Number, generated by you. |
|  | Update transporter | Update or assign the e-way bill to another transporter so that he can update further Part-B as per movement of goods |
|  | Re-generate Cons. E-way bill | Re-generate the Consolidated e-way bill whenever the transportation details like vehicle number changes (due to break down of vehicle, etc) for all the involved e-way bill in original Cons. EWB. |
|  | Extend Validity | Extend the validity of the e-way bill with proper reason, if the validity is expiring before reaching the destination |
|  | Get tax payer  | Get the tax payer details for given GSTIN |
|  | Get Enrolled Transporter | Get the enrolled transporter details for given TRANSIN |
|  | Get HSN  | Get the HSN description for the given HSN code |
|  | Get Error list | Get all the error codes passed by the APIs |

# AUTHENTICATION API

**Overview**

To access the API, application should first authenticate using the credentials shared and get the access token issued. Same access token to be used to access subsequent APIs. Access token will be configured to expire after 360 minutes. On expiry, same authentication API needs to be invoked to get new Access Token issued.

The API header information is used for authentication and authorization purpose.

Header + Request Payload

EWB

Tax Payer

Response

EWB

Header: client-id, client-secret, gstin

Request Payload: JSON(action, username, Encrypt(password, Ewaybill Public Key), Encrypt( app\_key, Ewaybill Public Key))

Tax Payer

Authentication Token

Response: JSON(status, authtoken, Encrypt (sek, app\_key)

Figure 1. Sequence Diagram Authentication API

**Specification**

The format and details of a sample API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/authenticate/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | Client\_id to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of the requesting Tax Payer |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description**  | **Value** |
| action |  | ACCESSTOKEN |
| username | Username of Tax payer as created on Ewaybill portal for API Integration(Tax payer will use the option Mainmenu->Registration->GSP to register under GSP OR Tax payer will use the option Mainmenu->Registration->API to register directly for API Interface) |
| password | Password of Tax payer as in Ewaybill portal for API Integration Password will be encrypted using Public key of E-WAY BILL using RSA algorithm |
| app\_key | Any 32 character random unique id generated by user identifying unique user session. App\_key will be encrypted using Public key of E-WAY BILL using RSA algorithm |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Values |
| status | Status of Authentication request | 0 – for Failure; 1 – for Success |
| authtoken | Authorization token is a universally unique identifier (UUID). | Eg: 30431124-5cbd-4045- 9840-4ebb18d70265", |
| sek | Session Encryption key (SEK) is a 32 bit random secure key generated using AES 256 algorithm in the EWB system App\_key will be used as key to encrypt the Session Encryption key (SEK) using AES 256 (AES/ECB/PKCS7Padding) algorithm | Eg: "IaxLuJcsqILZuYQX828ITxXlrRUM1ebdEIaqEXnlaK+xK/U7ZuM5xAayg7RB7mWp |

**Sample JSON**

**Authentication Request**

{

"action":"ACCESSTOKEN",

"username":"nictexxst",

"password":"rjPf8Rr4Gjh9qvSDfoqOqyHPW+ ==",

"app\_key":"e1d65bgSeTrTatc7atLhKWyUbM/ekfbAWu2dFMfyNuYS+ =="

}

**Authentication Response**

{

"status":"1",

"authtoken":"a30WKqvWdLMkPH6M5V9X4AY",

"sek":"crdHoP73uRaLwSsg4o8RZCHgVrfydvF2K5IW3+kc/rI5SqOVJ52Thf1yCI4j"

}

# GENERATE E-WAY BILL - API

Tax Payer

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON),sek)

Response: JSON(status,

Encrypt(Base64(Response JSON), sek)

 Figure 2. Sequence Diagram: E-WAY BILL GENERATION API

The format and details of a Generate E-way bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | Client-id to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** | **Values** |
| action |  | GENEWAYBILL |
| Encrypt (Base64(Request JSON),sek) | Encrypted E-way bill JSON string  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 0 – for Failure ;1 – for Success |
| Encrypt(Base64(Response JSON),sek) | Response of E-way bill JSON string, The response will have eway bill number and generated date if it is successfully generated. Otherwise the response will have error codes |  |

**Validations:**

1. In case of tax payer generating as supplier, the GSTIN of the requesting tax payer should be fromGstin
2. In case of tax payer generating as recipient, the GSTIN of the requesting tax payer should be toGstin
3. In case of transporter(enrolled transporter / GSTIN updated as transporter in e-way bill portal) generating e-way bill, the GSTIN/TRANSIN of the requesting person should be transporterId
4. Enrolled transporter(TRANSIN) cannot be supplier (fromGstin) or buyer (toGstin)
5. The following fields should have the one of the values given in the master codes
	1. Supply Type
	2. Sub Supply Type
	3. Document Type
	4. Transportation Mode
	5. Unit Quantity Code
6. The Document Date should be less than or equal to current date
7. The Transport document Date should be greater than equal to document date
8. fromGstin and toGstin should be valid GSTIN number of the supplier and recipient. In case of unregistered person involved in the transaction, pass URP in these fields.
9. In case of ‘Bill to – ship to’ transaction, toGstin, toTrdName and toStateCode should be passed with ‘Bill To’ party and - toAddr1, toAddr2, toPlace, toPincode and actToStateCode values should be passed with ‘Ship To’ party.
10. In case of ‘Bill From – Dispatch From’ transaction, fromGstin, fromTrdName and fromStateCode should be passed with ‘Bill From’ party and fromAddr1, fromAddr2, fromPlace, fromPincode and actFromStateCode values should be passed with ‘Dispatch from’ party.
11. HSN Code should be valid as per the GST master
12. In case of intra-state transaction, where both fromGstin and toGstin belong to same state, the SGST and CGST tax rate and value has to be passed
13. In case of inter-state transaction, where both fromGstin and toGstin belong to different states, the IGST tax rate and value has to be passed
14. In case of one of the party is SEZ unit, then IGST tax rate and value has to be passed
15. In case of road is a transportation mode , the vehicle number should be passed and transport document number is optional
16. In case of rail, air or ship is a transportation mode, the transport document number is must
17. In case of export, the state and pin of shipping address has to be ‘Other Country’ and 999999.
18. In case of import, the state and pin of shipping address has to be ‘Other Country’ and 999999.
19. If PART-B (transportation mode, vehicle number or transport document number) is not passed, the system generate unique number and return without validity period
20. If the transportation is done through the transporter, transporterId field should have valid TRANSID or GSTIN
21. In case of road transportation, if the vehicle is ‘over dimension cargo’, pass O, otherwise R (regular).
22. In case of non-advelarom tax of cess, directly pass the calculated value in cessValue along with advelarom cess tax value, if any.
23. If vehicle number is passed, the format of the vehicle should be valid and as per the format
24. In case of sub supply type is others, and then pass the subSupplyDesc accordingly.
25. In case of import or export, the actual distance being travelled in the country has to be passed.
26. The actual distance from source to destination cannot be greater than 4000.

**SAMPLE JSON**

**Generate E-WAY BILL Request**

{

"action":"GENEWAYBILL",

"**data**": " iJiJGXqU1pcj7lUobPrYFVPaeiD0OGPaB3lVFNTXTMiHpW7VUcvgSWGXsGETQU4v3RuT23wXUVcZnrglGHjXV10rh8DsUZO+kufS5MMF+E1RcTRJN70TeDPd3Ya84X6+ijRcPFJUJyjvLD2muWYF+UixgkaNybUDK2eQ9IKPtabvsblCRCjVISuNjMfV0nrjtqYSWT8fcTk323OxYaqPhGWH/9T24vE8NnkNWUjIpfwPgFkiVKZ2xVcLESXGYSnffA6UBZPng/tBj/qk6EXsNjeC6/P7E+KOKin7aeNw83MOmlnGi/zPIm3pOoBG9w6Bj5ZfDWFssjHpBNWw6isecadXLlIlvtjkVzZ+cDOxWYw8AaYWLItgAy5ZUxyxBlRpv+lWMVarsfHimL+GYX3zo3hOWvQ8VfYPW/5qRoFsPL4aYJgaR5kHrw+yl672jIuoj1iZ5Qf3nDeFWrotBVDjrmON/IlckqoL3ATBf6nmpybyMJrSGdjQikNrO/2/+F5nJLTILwru6x2XD6r45v9v6aJXE13QWHE84E6wcloNGOObvUBV+/BadIn4zqXr48eIGmjGJ4p9OTnqyzaecHnKOOpfX3SIaHJKnEUx97OZ2ErAHAPI7OtWled92lzzH/2sue6C5W4q27Jt5SFjr2Tyxxz3WUiJ58BKLSfs4kVHmLJXROoXsSplgRVG04QpiL80ticEafWoCbAVhBC2Xkabkc8GmTFg5ak9VZxNh9vdAZbJ5zL0K+3fw8osIYG8CermgPkQUaQo2kpK/gEkINapvxbvTLqrVrV171aHUdFk5PW2G2nc9N0uPi0nplxz/habvDgkRQPFr+MJjAA437/Y7HnI5B34jMk3EhtqWHZNLNAf6HuMK0pl5boJtSl4qfpXpjg5uUAoAPA0/gXc3l4VOsR1NpqOI1zjSxraW5sJB53USaEqdunQNrDpr/GQITARl/D86gZoMf+Bi7Jdt108AI7EK0mYALn4gMvy1I3gDCQ+NXl5wStfCO1ih/OrL2wfihoH8bHFeW6xxCgvbenLxrAQfhiBkgAQkp2wXsHNxW4JbNh5rDlwc1VqP63WQ7/QVIkRGe/HS6uOn5JVlUNvKVNWIe6Qpm8eThMD/GEL1IJAV6oQOr7+OOEn2oIR7olJ5yu652iH6tq0Xcx2C0ZmhHRms54w5bVWZu+/bOhMptSKIs/N67JGJ8hj85E2+yOgwdTn+Nvi+W7d2W3jVFF7XP7+CbfxZdi5RVyir4fddH8YbsLzj9FjP1uRcBqK2egzQ90UWKXCtqCi6QMORfFu5LDgwMCNJ75TH+1nVRaeXYhVDAQEeYWkG2yKVfME0BUoHQ54w5a0M1XoxMi9wU9LbuCAt5UG2wi39x2gKc78IddcABdtwx2K23hdoUZp/25Y "

}

**“data” JSON corresponds to the data element of Generate E-WAY BILL Request above**

{

"supplyType":"O",

"subSupplyType":"1",

“subSupplyDesc”:””,

"docType":"INV",

"docNo":"123-8",

"docDate":"15/12/2017",

"fromGstin":"29AAACG0569P1Z3",

"fromTrdName":"welton",

"fromAddr1":"2ND CROSS NO 59 19 A",

"fromAddr2":"GROUND FLOOR OSBORNE ROAD",

"fromPlace":"FRAZER TOWN",

"fromPincode":560042,
"actFromStateCode":29,

"fromStateCode":29,

"toGstin":"02EHFPS5910D2Z0",

"toTrdName":"sthuthya",

"toAddr1":"Shree Nilaya",

"toAddr2":"Dasarahosahalli",

"toPlace":"Beml Nagar",

"toPincode":689788,

"actToStateCode":29,

"toStateCode":28,

"totalValue":5609889,

"cgstValue":0,

"sgstValue":0,

"igstValue":168296.67,

"cessValue":224395.56,

“totInvValue”:6835678,

"transporterId":"",

"transporterName":"",

"transDocNo":"",

"transMode":"1",

"transDistance":"656",

"transDocDate":"",

"vehicleNo":"PVC1234",

"vehicleType":"R",

"itemList":

[{

"productName":"Wheat",

"productDesc":"Wheat",

"hsnCode":1001,

"quantity":4,

"qtyUnit":"BOX",

"cgstRate":0,

"sgstRate":0,

"igstRate":3,

"cessRate":4,

"cessAdvol":0,

"taxableAmount":5609889

}

]

}

**Generate E-WAY BILL Response**

{

"status":"1",

"**data**":"ew0KCSJld2F5QmlsbE5vIjogMTIzNDU2Nzg5LA0KCSJld2F5QmlsbERhdGUiOiAiMTYgLyAwOSAvIDIwMTcgMTA6IDMwOiAwMCBBTSINCn0="

}

**“data” JSON corresponds to the data element of Generate E-WAY BILL Response(Success) above**

{

"ewayBillNo":123456789,

"ewayBillDate":"16/09/2017 10:30:00 AM",

“validUpto”:”17/09/2017 12.00:00 PM”

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# UPDATE PART-B/VEHICLE NUMBER - API

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action,Encrypt( Base64(Request JSON),sek)

TP through GSP

EWB

Response: JSON(status, Encrypt(Base64(Response JSON),sek )

 Figure 3. Sequence Diagram: UPDATE VEHICLE API Invocation

The format and details of a Vehicle No. Updation API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by EWAYBILL SYSTEM |
| client-secret | Secret to be provided by EWAYBILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** | **Value** |
| Action |  | VEHEWB |
| Encrypt(Base64(Request JSON),sek) | Vehicle Update JSON string  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Values |
| status | Status of request | 1-Success;0-Error |
| Encrypt(Base64(Response JSON),sek) | Response of Update Vehicle JSON string,The response will have vehicle number and updated date if it is successfully updated. Otherwise the response will have error codes |  |

**Validations:**

1. Part-B can be updated by the generator of the e-way bill, if there is no transporter, or by the assigned transporter
2. Part-B can be updated only if the e-way bill is active, that is, not cancelled
3. Part-B can be updated only if the e-way bill is within validity period, that is, validity is not expired if validity is already set
4. If only Part A is available, Validity will be set
5. If vehicle is passed, the format of the vehicle number should be valid and as per the format
6. In case of road as a transportation mode , the vehicle number should be passed and transport document number is optional
7. In case of rail, air or ship as a transportation mode, the transport document number is must
8. If validity has been calculated already for the E Way Bill, then vehicle type value will be ignored.
9. If validity has not been calculated and vehicle type value has not been passed, the system will take the vehicle type ‘R’ as default and process the request

**Sample JSON**

**UPDATE VEHICLE Request**

{

"action":" VEHEWB ",

"**data**": “ew0KCSJFd2JObyI6IDExMTAwMDYwOTI4MiwNCgkiVmVoaWNsZU5vIjogIlBRUjEyMzQiLA0KCSJGcm9tUGxhY2UiOiAiQkFOR0FMT1JFIiwNCgkiRnJvbVN0YXRlIjogMjksDQoJIlJlYXNvbkNvZGUiOiAiMSIsDQoJIlJlYXNvblJlbSI6ICJ2ZWhpY2xlIGJyb2tlIGRvd24iLA0KCSJUcmFuc0RvY05vICI6ICIxMjM0ICIsDQoJIlRyYW5zRG9jRGF0ZSAiOiAiMTIvMTAvMjAxNyAiLA0KCSJUcmFuc01vZGUiOiAiMSINCn0=”

}

**“data” JSON corresponds to the data element of UPDATE VEHICLE Request above**

{

 "ewbNo": 111000609282,

 "vehicleNo": "PQR1234",

 "fromPlace": "BANGALORE",

 "fromState": 29,

 "reasonCode": "1",

 "reasonRem": "vehicle broke down",

 "transDocNo": "1234 ",

 "transDocDate": "12/10/2017 ",

 "transMode": "1",

 "vehicleType":"R"

}

**UPDATE VEHICLE Response**

{

"status":"1",

"**data**":"ew0KInZlaFVwZERhdGUiOiIxNS8xMi8yMDE3IDEwOjU2OjAwIEFNIg0KfQ0K"

}

**“data” JSON corresponds to the data element of UPDATE VEHICLE Response(Success) above**

{

"vehUpdDate":"15/12/2017 10:56:00 AM",

“validUpto”:”17/09/2017 -11:59:00 PM”

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# GENERATE CONSOLIDATED E WAY BILL API

TP

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON)),sek)

Response: JSON(status, Encrypt( Base64(Response JSON) ,sek)

Figure 3. Sequence Diagram: CONSOLIDATED E-WAY BILL GENERATION API Invocation

The format and details of Consolidated E-way bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** |  |
| Action |  | GENCEWB |
| Encrypt(Base64(Request JSON),sek) | Consolidated E-way bill JSON string  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1-Success ; 0-Error |
| Encrypt(Base64(Response JSON),sek) | Response of Consolidated E-way bill JSON string.The response will have consolidated eway bill number and generated date if it is successfully generated. Otherwise the response will have error codes |  |

**Validations:**

1. EWB can be added to the CEWB if the generator of CEWB is a generator or the assigned transporter of the e-way bill.
2. EWB can be added to the CEWB only if the e-way bill is active, that is, not cancelled
3. EWB can be added to the CEWB only if the e-way bill is within validity period, that is validity is not expired.
4. If vehicle number is passed, the format of the vehicle number should be valid and as per the format
5. In case of road as a transportation mode , the vehicle number should be passed and transport document number is optional
6. In case of rail, air or ship as a transportation mode, the transport document number is must

**Sample JSON**

**Generate Consolidated E-WAY BILL Request**

{

"action":"GENCEWB",

"**data**":”ew0KICANCiAgImZyb21QbGFjZSI6ICJCQU5HQUxPUkUgU09VVEgiLA0KICAiZnJvbVN0YXRlIjogIjI5IiwNCiAgInZlaGljbGVObyI6ICJLQTEyQUIxMjM0IiwNCiAgInRyYW5zTW9kZSI6ICIxIiwNCiAgInVzZXJHc3RpbiI6ICIyOUFBQUNHMDU2OVAxWjMiLA0KICAidXNlcklkIjogIkFNQlVKQU5FMzIiLA0KICAidHJpcFNoZWV0RXdiQmlsbHMiOiBbDQogICAgew0KICAgICAgImV3Yk5vIjogMTExMDAwNjA5MjgyDQogICAgfSwNCiAgICB7DQogICAgICAiZXdiTm8iOiAxODEwMDA2MDkyNzANCiAgICB9DQogIF0NCn0= "

}

**“data” JSON (corresponds to the data element of Generate Consolidated E-WAY BILL Request)**

{

 "fromPlace": "BANGALORE SOUTH",

 "fromState": 29,

 "vehicleNo": "KA12AB1234",

 "transMode": "1",

 "transDocNo":"1234",

 "transDocDate":"12/10/2017",

 "tripSheetEwbBills": [

 { "ewbNo": 111000609282 },

 { "ewbNo": 181000609270 }

]}

**Generate Consolidated E-WAY BILL Response**

{

"status":"1",

"**data**":"ew0KImNFd2JObyI6IjE4MTAwMDAzODciLA0KImNFV0JEYXRlIjoiMTUvMTIvMjAxNyAxMDoyNzowMCBBTSINCn0NCg0K"

}

**“data” JSON corresponds to the data element of Generate Consolidated EWB Response(Success) above**

{

"cEwbNo":1810000387,

"cEWBDate":"15/12/2017 10:27:00 AM"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# CANCEL E-WAY BILL API

TP

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON),sek))

Response: JSON(status, Encrypt(Base64(Response JSON),sek) )

Figure 4. Sequence Diagram: Cancellation of E-WAY BILL API Invocation

The format and details of Cancellation of E-way bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | Client-id to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** |  |
| Action | CANEWB | CANEWB |
| Encrypt(Base64(Request JSON),sek) | Cancelled E-way bill JSON string.  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success; 0 - Error |
| Encrypt(Base64( Response JSON),sek) | Response of Cancelled E-way bill JSON string.The response will have cancelled eway bill number and cancelled date if it is successfully cancelled. Otherwise the response will have error codes |  |

**Validations:**

1. E-way bill can be cancelled by the generator of the e-way bill only.
2. E-way bill can be cancelled within 24 hours of generation of e-way bill

**Sample JSON**

**CANCEL E-WAY BILL Request**

{

"action":"CANEWB ",

"**data**":” eyAgDQoiZXdiTm8iOiAxMTEwMDA2MDkyODIsDQogImNhbmNlbFJzbkNvZGUiOiAyLA0KImNhbmNlbFJtcmsiOiAiQ2FuY2VsbGVkIHRoZSBvcmRlciINCn0NCg== "

}

**“data” JSON (corresponds to the data element of Cancel E-WAY BILL Request)**

{

"ewbNo": 111000609282,

 "cancelRsnCode": 2,

"cancelRmrk": "Cancelled the order"

}

**Cancel E-WAY BILL Response**

{

"status":"1",

"**data**":"

ew0KCSJld2F5QmlsbE5vIjogIjExMTAwMDYwOTI4MiIsDQoJImNhbmNlbERhdGUiOiAiMTUvMTIvMjAxNyAxMTozNTowMCBBTSINCn0= "

}

**“data” JSON (corresponds to the data element of Cancelled EWB Response(Success))**

{

 "ewayBillNo": 111000609282,

 "cancelDate": "15/12/2017 11:35:00 AM"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# REJECT EWAYBILL API

TP

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON)),sek)

Response: JSON(status, Encrypt(Base64(Response JSON),sek )

Figure 5. Sequence Diagram: Reject E-WAY BILL API Invocation

The format and details of Reject E-way bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** |  |
| Action | REJEWB | REJEWB |
| Encrypt(Base64(Request JSON),sek) | Reject E-way bill JSON string.  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),sek) | Response of Reject E-way bill Json string.The response will have rejected eway bill number and rejected date if it is successfully rejected. Otherwise the response will have error codes |  |

**Validations:**

1. E-way bill can be rejected by the other party involved in the e-waybill, if generated by the supplier/recipient.
2. E-way bill can be rejected by supplier or recipient, if it is generated by the transporter.
3. E-way bill can be rejected within 72 hours of generation of e-way bill

**Sample JSON**

**Reject E-WAY BILL Request**

{

"action":"REJEWB ",

"**data**":"ew0KCSJld2JObyI6ICIxODEwMDA2MDkyNzAiDQp9 "

}

**“data” JSON corresponds to the data element of Reject E-WAY BILL Request above**

{

 "ewbNo": 181000609270

}

**Reject E-WAY BILL Response**

{

"status":"1",

"**data**":" ew0KCSJld2F5QmlsbE5vIjogMTgxMDAwNjA5MjcwLA0KCSJld2JSZWplY3RlZERhdGUiOiAiMTUvMTIvMjAxNyAxMDoyNDowMCBBTSINCn0="

}

**“data” JSON (corresponds to the data element of Reject EWB Response(Success))**

{

 "ewayBillNo": 181000609270,

 "ewbRejectedDate": "15/12/2017 10:24:00 AM"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# UPDATE TRANSPORTER API

TP

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON)),sek)

Response: JSON(status, Encrypt(Base64(Response JSON),sek )

Figure 6. Sequence Diagram: Update Transporter API Invocation

The format and details of Update transporter API request is depicted in following table.

|  |  |
| --- | --- |
| URL | http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/ |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** |  |
| Action | UPDATETRANSPORTER | UPDATETRANSPORTER |
| Encrypt(Base64(Request JSON),sek) | Update transporter JSON string.  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),sek) | Response of Update Transporter Json string.The response will have eway bill number for which Transporter detail updated and new transin if it is successfully updated Otherwise the response will have error codes |  |

**Validations:**

1. The transporter can be updated for the e-way bill only by the current transporter. If transporter is not assigned, then the generator can update
2. Transporter ID should be valid GSTIN or TRANSIN
3. Transporter can be updated only if the e-way bill is active, that is, not cancelled
4. Transporter can be updated only if the e-way bill is within validity period, that is, validity is not expired.

**Sample JSON**

**Update transporter Request**

{

"action":"UPDATETRANSPORTER",
"data":"9WnDVxq+4udo/JaeSkxf0CeNJhKAjI/eZBSV4xty2WN091dpn4BMwiDOIglBx9SZyI2Ysp3O8arcFb0N+D1/UQ=="

}

**“data” JSON corresponds to the data element of Update Transporter Request above**

{

"ewbNo":"161000843009",

"transporterId":"29AKLPM8755F1Z2"

}

**Update Transporter Response**

{

"status":"1",

"data":"R5cbQqbYz47IbX4HBelv7lXKnCb5otdm9tjT9wQ4aN1z1vLIAb0cTnFxQhz3X4CNFnQQNSbdDkCTaWmyfxJ65laR4BTvyTiDXH7TzavmZZLM3pYaGN04O/7Pg7wHNfZNKm9Wq5wOoJoRn8Nt1b8mfg=="

}

**“data” JSON (corresponds to the data element of Update Transporter Response(Success))**

{

"ewayBillNo":"161000843009",

"transporterId":"29AKLPM8755F1Z2",

"transUpdateDate":"26/04/2018 04:32:27 PM"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# EXTEND VALIDITY OF E-WAY BILL

TP

EWB

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action, Encrypt(Base64(Request JSON)),sek)

Response: JSON(status, Encrypt(Base64(Response JSON),sek )

Figure 7. Sequence Diagram: Extend the validity of E-Way Bill API Invocation

The format and details of Extend the validity of E-Way Bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/ |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** |  |
| Action | EXTENDVALIDITY | EXTENDVALIDITY |
| Encrypt(Base64(Request JSON),sek) | Extend Validity JSON string.  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),sek) | Response of Extend Validity Json string.The response will have eway bill number for which validity is extended and date of validity if it is successfully updated Otherwise the response will have error codes |  |

**Validations:**

1. The Validity of EWB can be extended only by the current transporter. If transporter is not assigned, then the generator can update.
2. The validity of EWB can be extended between 8 hours before expiry time and 8 hours after expiry time.
3. The reason code along with reason description for the extension has to be entered.
4. The present location of the consignment, at the time of requesting for the extension, has to be entered and distance to travel from there to destination has to be entered.
5. If vehicle number is passed, the format of the vehicle number should be valid and as per the format
6. In case of road as a transportation mode , the vehicle number should be passed and transport document number is optional
7. In case of rail, air or ship as a transportation mode, the transport document number is must
8. Remaining distance should not be more than the actual distance mentioned during the generation of E-way bill.

**Sample JSON**

**Extend Validity Request**

{
"action":"EXTENDVALIDITY",
"data":"QkICbCHmge8bPXwGjX13DRe/IAsTnwmrqW7oESbyAi+iA24h/Sz5vnkLqKN3IdTxglxSOGQorNn/h4fVvYU4Fy9y2XSJj03DrZHeSMeoC9OPFTWokxD9LkpWo8CMjuTO+gtZGcCPBi0TGJdK/1v4IkCbX/Ade5TR79UzooUnWNXeGSG57y9z2GlCnyQunGxVXQvDVWbIpLswdP/RUnFCDh1Bw8DoZGemto4UECv4LknDqHcQU8zhd6Pbpgna67iliVqQ9SMiemF7CoyQvEMyD+AepFRxMbi9dV5VSu3QcMYkbNd3xpaD9v6a4LZu5kkR"
}

**“data” JSON corresponds to the data element of Extend Validity Request above**

{

"ewbNo": 161000843009,

"vehicleNo": "PQR1234",

"fromPlace":"Bengaluru",

"fromState":29,

"remainingDistance":50,

"transDocNo": "1234 ",

"transDocDate": "12/10/2017",

"transMode": "1",

"extnRsnCode":1,

"extnRemarks":"Flood"

}

**Extend Validity Response**

{
"status":"1",
"data":"R5cbQqbYz47IbX4HBelv7jWBro2sSloDJNs7PekWVrFUYuSzxUT6Gw22hIaFj9971q8TmZi8YHstvKc97lr1/9q6KJMUXOaG9q3ETkOoN8jbhKTgp3nXuQ52ClFRTSdvXScp+R1xwihB8/TYvF9jqg=="
}

 **“data” JSON (corresponds to the data element of Extend Validity Response(Success))**

{

"ewayBillNo":"161000843009",

"- updatedDate ":"26/04/2018 05:07:00 PM",

"validUpto":"21/05/201811:59:00 PM"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# REGENERATE CONSOLIDATED E-WAY BILL - API

Header: client-id, client-secret, gstin, authtoken

Request: JSON(action,Encrypt( Base64(Request JSON),sek)

TP through GSP

EWB

Response: JSON(status, Encrypt(Base64(Response JSON),sek )

 Figure 8. Sequence Diagram: Regeneration of Consolidated E-Way Bill API Invocation

The format and details of a Regeneration of Consolidated E-Way bill API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/> |
| Content-Type | application/json |
| Method | POST |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by EWAYBILL SYSTEM |
| client-secret | Secret to be provided by EWAYBILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Request Payload**

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Description** | **Value** |
| Action | REGENTRIPSHEET | REGENTRIPSHEET |
| Encrypt(Base64(Request JSON),sek) | Regeneration of Consolidated E- Way Bill JSON string  |  |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Values |
| Status | Status of request | 1-Success;0-Error |
| Encrypt(Base64(Response JSON),sek) | Response of Update Vehicle JSON string,The response will have regenerated Consolidated E-Way Bill number and updated date if it is successfully updated. Otherwise the response will have error codes |  |

**Validations:**

1. CEWB can be re-generated by the generator of that CEWB or the current transporter.
2. Re-generate CEWB considers only the e-way bills which are active, that is, not cancelled
3. Re-generate CEWB considers only the e-way bills which are within the validity period, that is validity is not expired.
4. If vehicle number is passed, the format of the vehicle number should be valid and as per the format
5. In case of road as a transportation mode , the vehicle number should be passed and transport document number is optional
6. In case of rail, air or ship as a transportation mode, the transport document number is must

**Sample JSON**

**Regenerate Consolidated E- Way Bill Request**

{

"action":"REGENTRIPSHEET",
"data":"3AKV9paJsZrOTCbbWh5wQYjcCxzpFVirDbZNUt/5IyIM2JtIdGxoZbR/RVaqiCHlAmj08CK/NCIHT9MlFV0/ETSGqrBoTvefQJcuLnG8qL3OA2+qM6e6gBqc2giGbTDRQZMzcIyVDH3oQfuY1BIKlb6rm7ZY1LKPM3Rnku9Sllz/qqIDK6alffclJoPF+P05HoewXf01VgBQAgP8aN5FsJ2BoPC++gae2zq5KAtYfJlHKyhLFxU7zm83K0fdTVU/gIC35J1UIS0UuF6Zw+vbOA=="

}

**“data” JSON corresponds to the data element of Regeneration of Consolidated E-Way Bill Request above**

{

"tripSheetNo": 1710001952,

"vehicleNo": "PQR1234",

"fromPlace":"Bengaluru",

"fromState":29,

"transDocNo": "1234 ",

"transDocDate": "26/04/2018 ",

"transMode": "1",

"reasonCode":1,

"reasonRem":"Flood"

}

**Regenerate Consolidated E-Way Bill Response**

{

"status":"1",

"data":"6EIsamkmutKEw7o4iNNVOARZyD5fgbaZXH3XT18DkVYzXsUxtJbaO2Xy2em2re1tcdnlY6RrAo+J3pbSWtNz1lvcG7GqK7UJzIjF5TrCnoxoo8byaYNv/6l1GUMR4ho8tQpBDQEgu/mPjkk91LV6GxYYOyM2SLAQHvq3i7mtqLs="}

**“data” JSON corresponds to the data element of Regenerate Consolidated E-Way Bill Response(Success) above**

{

"tripSheetNo":1410001953,

"tripSheetEwayBills":[

{"ewbNo":161000843009},

{"ewbNo":171000842926

}]

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# GET E WAY BILL DETAILS

This method provideS the eway bill details for a given eway bill number.

The format and details of GetEwayBilll API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetEwayBill> |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | ewbNo |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| Authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of E-way bill Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Validations:**

1. E-way bill number should be 12 digit and valid
2. Requestor GSTIN has to be supplier GSTIN or recipient GSTIN or transporter GSTIN/TRANSIN in that e-way bill

**Sample Json for GetEwayBill**

{

"ewbNo":161001046722,

"ewayBillDate":"03/05/2018 11:03:00 AM",

"genMode":"API",

"userGstin":"29AKLPM8755F1Z2",

"supplyType":"O",

"subSupplyType":"1 ",

"docType":"INV",

"docNo":"65656565",

"docDate":"10/03/2018",

"fromGstin":"29AKLPM8755F1Z2",

"fromTrdName":"test",

"fromAddr1":"4556",

"fromAddr2":"hulimavu",

"fromPlace":"bannargatta",

"fromPincode":545454,

"fromStateCode":29,

"toGstin":"29AAAAA1799H1ZK",

"toTrdName":"test2",

"toAddr1":"toaddress1",

"toAddr2":"toaddress2",

"toPlace":"toplace",

"toPincode":899879,

"toStateCode":29,

"totalValue":68000.00,

"totInvValue":10.00,

"cgstValue":10.00,

"sgstValue":10.00,

"igstValue":0.00,

"cessValue":1800.00,

"transporterId":"",

"transporterName":"",

"status":"ACT",

"actualDist":2500,

"noValidDays":25,

"validUpto":"28/05/2018 11:59:00 PM",

"extendedTimes":0,

"rejectStatus":"N",

"actFromStateCode":29,

"actToStateCode":29,

"vehicleType":"R"

"itemList":[{

"itemNo":1,

"productId":0,

"productName":"CEMENT",

"productDesc":"",

"hsnCode":25210010,

"quantity":2.00,

"qtyUnit":" ",

"cgstRate":10.000,

"sgstRate":10.000,

"igstRate":0.000,

"cessRate":1.000,

"cessAdvol":0.00,

"taxableAmount":0.00

},

{

"itemNo":2,

"productId":0,

"productName":"steel",

"productDesc":"steel rods",

"hsnCode":2402,

"quantity":4.00,

"qtyUnit":"NOS",

"cgstRate":10.000,

"sgstRate":10.000,

"igstRate":0.000,

"cessRate":3.000,

"cessAdvol":0.00,

"taxableAmount":0.00

}],

"VehiclListDetails":[{

"updMode":"API",

"vehicleNo":"PQR1234",

"fromPlace":"Bengaluru",

"fromState":29,

"tripshtNo":1810002031,

"userGSTINTransin":"29AKLPM8755F1Z2",

"enteredDate":"12/05/2018 12:44:00 PM",

"transMode":"1 ",

"transDocNo":"1234",

"transDocDate":"03/05/2018",

},

{

"updMode":"API",

"vehicleNo":"PQR1234",

"fromPlace":"Bengaluru",

"fromState":29,

"tripshtNo":1110002030,

"userGSTINTransin":"29AKLPM8755F1Z2",

"transMode":"1 ",

"transDocNo":"1234",

"transDocDate":"03/05/2018",

"enteredDate":"12/05/2018 12:44:00 PM",

},

{

"updMode":"API",

"vehicleNo":"KA25AB3456",

"fromPlace":"BANGALORE SOUTH",

"fromState":29,

"tripshtNo":1510002029,

"userGSTINTransin":"29AKLPM8755F1Z2",

"transMode":"1 ",

"transDocNo":"1234",

"transDocDate":"12/10/2017",

"enteredDate":"12/05/2018 12:44:00 PM",

},

{

"updMode":"API",

"vehicleNo":"KA25AB3456",

"fromPlace":"BANGALORE SOUTH",

"fromState":29,

"tripshtNo":1810002028,

"userGSTINTransin":"29AKLPM8755F1Z2",

"transMode":"1 ",

"transDocNo":"1234",

"transDocDate":"12/10/2017",

"enteredDate":"12/05/2018 12:44:00 PM",

},

{

"updMode":"API",

"vehicleNo":"RJ191G5024",

"fromPlace":"bannargatta",

"fromState":29,

"tripshtNo":0,

"userGSTINTransin":"29AKLPM8755F1Z2",

"transMode":"1 ",

"transDocNo":"12345",

"transDocDate":null,

"enteredDate":"12/05/2018 12:44:00 PM",

}]

}

# GET EWAY BILL ASSIGNED TO YOU (REQUESTING GSTIN) FOR A TRANSPORTATION WITHIN STATE– PARTICULAR DATE

This method provides the l ist of eway bills assigned to requesting GSTIN/TRANSIN for a transportation of goods by his clients in his state, based on generated date

The format and details of GetEwayBillsForTransporter API request is depicted in following table.

|  |  |
| --- | --- |
| URL | http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetEwayBillsForTransporter |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | date |
| URL Parameter Desc | date – E-way bill generated Date |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of E-way bill assigned to a transporter Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Sample JSON for GetEwayBillsForTransporter**

[{ "ewbNo": 151000256262,

 "ewbDate": "10/12/2017 10:45:00 AM ",

 "genGstin": "29AMRPV8729L1Z1",

 “docNo": "",

 "docDate": "22/09/2017",

 “delPlace”:”Bangalore”,

 "delPinCode": 560056,

 "delStateCode": 29,

 “validUpto”:”17/12/2017 -11.59.00 PM”,

 “extendedTimes”:0,

 “status”: “ACT”,

 “rejectStatus”:”Y”

 },

{ "ewbNo": 121000359898,

 "ewbDate": "10/12/2017 10:45:00 AM ",

 "genGstin": "29AAECP2371C1ZL",

 "docNo": "TA120",

 "docDate": "20/09/2017",

 “delPlace”:”Bangalore”,

 "delPinCode": 560013,

 "delStateCode": 29

 “validUpto”:”17/12/2017 12.00:00 PM”,

 “extendedTimes”:0,

 “status”: “ACT”,

 “rejectStatus”:”Y”

}

]

# GET EWAY BILL ASSIGNED TO YOU (REQUESTING GSTIN) FOR TRANSPORTATION – PARTICULAR GSTIN and DATE

This method provides the list of E-way bills assigned to requesting GSTIN/TRANSIN for transportation by a given GSTIN, based on generated date.

The format and details of GetEwayBillsForTransporterByGstin API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetEwayBillsForTransporterByGstin> |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | Gen\_gstin, date |
| URL Parameter Description | Gen\_gstin – GSTIN of E-way bill generatordate – E-way bill generated DateParameters needs to be passed in the order in which it is listed |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 1 – Success; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of E-way bill assigned to a Transporter for a specific GSTIN Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Valoidation:**

1. Valid date has to be passed
2. Valid GSTIN of the generator of the e-way bill has to be passed

**13.1.1 Sample JSON**

[

{

 "ewbNo": 151000256262,

 "ewbDate": "10/12/2017 10:45:00 AM ",

 "genGstin": "29AMRPV8729L1Z1",

 “docNo": "",

 "docDate": "22/09/2017",

 "delPinCode": 560056,

 "delStateCode": 29,

 “validUpto”:”17/12/2017 12.00:00 PM”,

 “extendedTimes”:0,

 “delPlace”: “Bangalore”,

 “status”: “ACT”,

 “rejectStatus”:”Y”

 },

{ "ewbNo": 121000359898,

 "ewbDate": "10/12/2017 10:45:00 AM ",

 "genGstin": "29AAECP2371C1ZL",

 "docNo": "TA120",

 "docDate": "20/09/2017",

 "delPinCode": 560013,

 "delStateCode": 29 ,

 “validUpto”:”17/12/2017 12.00:00 PM”,

 “extendedTimes”:0,

 “delPlace”: “Bangalore”,

 “status”: “ACT”,

 “rejectStatus”:”Y”

} ]

# GET E-WAY BILLS GENERATED ON YOU (REQUESTING GSTIN) BY OTHER PARTIES

This method provides the list of E-way bills generated by other parties on your GSTIN. This can be used for rejecting the e-way bill, if required.

The format and details of GetEwayBillsofOtherParty API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetEwayBillsofOtherParty> |
| Content-Type | application/json |
| Method | GET |
| URL Parameters |  date |
| URL Parameter Desc | date – E-way bill generated DateParameters needs to be passed in the order in which it is listed |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of E-way bill generated by other party Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Validations:**

1. **Passing date should be within last/latest 3 days , other than current date**
2. **Passing date cannot be current date**

**Sample Json**

[

{

 "ewbNo": 151000256262,

 "ewayBillDate": "10/12/2017 10:45:00 AM ",

 "genMode":"API",

 "genGstin": "29AMRPV8729L1Z1",

 “docNo": "",

 "docDate": "22/09/2017",

 “fromgstin”:”29AAAAX1234S1ZN”,

 “fromTradename”: “XYZ Enterprises”,

 “togstin”:”29YYYXX1234S1ZN”,

 “toTradename”: “ABC Enterprises”,

“totInvValue”: 1234556,

 “hsnCode”: 12,

 “hsnDesc”:”ddsd”,

 “status”: “ACT”,

 “rejectStatus”:”Y”

 },

{ "ewbNo": 121000359898,

 "ewbDate": "10/12/2017 10:45:00 AM ",

 "genGstin": "29AAECP2371C1ZL",

 "docNo": "TA120",

 "docDate": "20/09/2017",

 “fromGstin”:”29AAAAX1234S1ZN”,

 “fromTradeName”: “XYZ Enterprises”,

 “toGstin”:”29YYYXX1234S1ZN”,

 “toTradeName”: “ABC Enterprises”,

 “totInvValue”: 1234556,

 “hsnCode”: 12,

 “hsnDesc”:”ddsd”,

 “status”: “ACT”,

 “rejectStatus”:”Y”

} ]

# GET CONSOLIDATED E-WAY BILL

This method provides the Consolidated E-way bill details for a given E-way bill number.

The format and details of GetTripSheet API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetTripSheet> |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | tripSheetNo |
| URL Parameters description | tripSheetNo – Consolidated E-way bill number |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of Consolidated E-way bill Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Validations:**

1. Cons. E-way bill number should be 10 digit and valid
2. Requestor GSTIN/TRANSIN has to generator of the Cons. e-way bill

**Sample Response Json for GetTripSheet (Consolidated E-way Bill)**

{

 "tripSheetNo": 1610005711,

 "fromPlace": "TYH",

 "fromState": "29",

 "vehicleNo": "KA12ER4344",

 "transMode": "1 ",

 "userGstin": "29BQSPA3829E1ZG",

 "enteredDate": “12/12/2018 11:50:00 AM”,

 “transDocNo”:”897”,

 “transDocDate”:”17/12/2017”,

 "tripSheetEwbBills": [

 {

 "ewbNo": 131009585893,

 "ewbDate": “10/12/2017 10:45:00 AM”,

 "userGstin": "29BQSPA3829E1ZG",

 “docNo”: “1012 “;

 “docDate”: “10/12/2017 “;

 “fromGstin”:”29AAAAX1234S1ZN”,

 “fromTradeName”: “XYZ Enterprises”,

 “toGstin”:”29YYYXX1234S1ZN”,

 “toTradeName”: “ABC Enterprises”,

 “totInvValue”: 123455,

 “validUpto”:”20/12/2017 -11:59:00 PM”

 },

 {

 "ewbNo": 141009586518,

 "ewbDate": “10/12/2017 10:45:00 AM ",

 "userGstin": "29BQSPA3829E1ZG",

 "docNo": "doc45",

 "docDate": "13/12/2017",

 “fromGstin”:”29AAAAX1234S1ZN”,

 “fromTradeName”: “XYZ Enterprises”,

 “toGstin”:”29YYYXX1234S1ZN”,

 “toTradeName”: “ABC Enterprises”,

 “totInvValue”: 123455,

 “validUpto”:”21/09/2017 -11:59:00 PM”

 }

 ] }

# GET GSTIN details

This method provides the tax payer and registered transporter’s details for a given GSTIN number.

The format and details of GetGSTIN API request is depicted in following table.

|  |  |
| --- | --- |
| URL | [http://ewaybill2.nic.in/ewaybillapi/v1.02/Master/GetGSTINDetails](http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetGSTIN) |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | -gstin |
| URL Parameters description | GSTIN – GSTIN number for which the details are required |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of GSTIN details Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

Sample Json for GetGSTIN (GSTIN details)

**GetGSTIN Response**

{

"status":"1",

"data":"pqO4DZbmV374giihBU2i8IyAIwstG5K0jajoEwb5H9Cy33aEji2MAnSauFeTduDqin/WASDoWoT9rx04Z4fNZ40NqFMq4QqqtqOXXpd7aqsl13wX0lW3EwuMpncLAm6cu5J9aylFY1ULRmQpy/aL9js/xnWcVzDdjEYXW3+OsYwB+jk4XX7jynDbtaSlHXc4","rek":"ieJ8YYyua7HW9tpJc7HtNirzoQAS5kMPIi+KEUOyvEgWGDsjNkiwEB76t4u5rai7","hmac":"mFJ+1oFDKg233BLYP9QZjHN+mLJd9YCGz7JJWqwN6no="

}

**“data” JSON (corresponds to the data element of GetGSTIN Response(Success))**

{

"gstin":"29AKLPM8755F1Z2",

"tradeName":"XYZ Traders",

"legalName":"NICTEST",

"address1":"SOME STREET",

"address2":"SOME CITY",

"stateCode":"29",

"pinCode":"560079"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# GET Transin details

This method provides the enrolled (unregistered) transporter details for a given Transporter Transin .

The format and details of GetTransin API request is depicted in following table.

|  |  |
| --- | --- |
| URL | [http://ewaybill2.nic.in/ewaybillapi/v1.02/Master/GetTransporterDetails](http://ewaybill2.nic.in/ewaybillapi/v1.02/ewayapi/GetTransin) |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | trn\_no |
| URL Parameters description | trn\_no – Transporter GSTIN or Transin for which the details are required |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| Gstin | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of GSTIN details Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Sample Json for GetTransin (Transporter details)**

**GetTransin Response**

{
"status":"1",
"data":"pqO4DZbmV374giihBU2i8IyAIwstG5K0jajoEwb5H9Cy33aEji2MAnSauFeTduDqin/WASDoWoT9rx04Z4fNZ40NqFMq4QqqtqOXXpd7aqsl13wX0lW3EwuMpncLAm6cu5J9aylFY1ULRmQpy/aL9js/xnWcVzDdjEYXW3+OsYwB+jk4XX7jynDbtaSlHXc4","rek":"ieJ8YYyua7HW9tpJc7HtNirzoQAS5kMPIi+KEUOyvEgWGDsjNkiwEB76t4u5rai7","hmac":"mFJ+1oFDKg233BLYP9QZjHN+mLJd9YCGz7JJWqwN6no="
}

**“data” JSON (corresponds to the data element of GetTransin Response(Success))**

{

 "transin": "29AKLPM8755F1Z2",

 "tradeName":"XYZ Traders",

 "legalName":"NICTEST",

 "address1":"SOME STREET",

 "address2":"SOME CITY",

 "stateCode":"29",

 "pinCode":"560079"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# GET Error List

This method provides the list of errors thrown by API.

The format and details of GetErrorList API request is depicted in following table.

|  |  |
| --- | --- |
| URL | <http://ewaybill2.nic.in/ewaybillapi/v1.02/Master/GetErrorList> |
| Method | GET |
| URL Parameters |  |
| URL Parameters description |  |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| gstin | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of GSTIN details Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Sample Json for GetErrorList (Errors details)**

**GetErrorList Response**

{

"status":"1",

"data":" zX2L7DVztyPqii7otM89K4JAosR/RD5Beg3Coa+7JYiC7rviT9694bMJLDDHRaimKVTgvpTdxnfvSZ/SjhNfuA==",

"rek":"C3J09sBhJSi+mLdYguXyQCJY2F2bBcuIn3Na1Swhm2ux7Ez0tKl74s/ij5hOD+P9",

"hmac":"aGbw5415X8h0MO9Fk7SXTm/oDsRRNiZj7Hgxo0stOow="

}

**“data” JSON (corresponds to the data element of GetErrorList Response(Success))**

[{

"errorCode":"100",

"errorDesc":"Invalid json"

}]

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# GET HSN details

This method provides the HSN description details for a given HSN Code .

The format and details of HSN API request is depicted in following table.

|  |  |
| --- | --- |
| URL | [http://ewaybill2.nic.in/ewaybillapi/v1.02/Master/GetHsnDetailsByHsnCode](http://ewaybill2.nic.in/ewaybillapi/v1.02/Master/GetHSNDetails) |
| Content-Type | application/json |
| Method | GET |
| URL Parameters | hsncode |
| URL Parameters description | hsncode for which the details are required |

**Request Header**

|  |  |
| --- | --- |
| Attributes | Description |
| client-id | clientid to be provided by E-WAY BILL SYSTEM |
| client-secret | Secret to be provided by E-WAY BILL SYSTEM |
| GSTIN | GSTIN of Requester(Tax payer or Transporter) |
| authtoken | Authentication token returned by the E-way bill system |

**Response Payload**

|  |  |  |
| --- | --- | --- |
| Attributes | Description | Value |
| Status | Status of request | 1 – Success ; 0 - Error |
| Encrypt(Base64(Response JSON),rek) | Response of HSN details Json string. |  |
| Encrypt(rek,sek) | Random encryption key which is encrypted using sek |  |
| Hmac ( Base64(JSON data )) | HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key |  |

**Sample Json for GetHSN (HSN details)**

**GetHSN Response**

{
"status":"1",

"data":"FNWLIGnnbZjmRd2yVAyouCM/Q/6IhGUreS0u9RwQ3/jxy5WzO21LfEDo0yRk6cRPZtMCdm2rdkNo1bd5ueiyHA==",

"rek":"jqBN5+JqNQiWlyHTEMqAzb7MZwSJZz6Fw/lBkgou3CKx7Ez0tKl74s/ij5hOD+P9",

"hmac":"N3mdYAT4Tq0zgh3Znok7rHTi692Xy1zhQUBGExjBVHI=

}

**“data” JSON (corresponds to the data element of GetHSN Response(Success))**

{

"hsnCode":"1001",

"hsnDesc":"WHEAT AND MESLIN - Durum wheat :"

}

**JSON(in case of error)**

{

"status": "0",

"error":{"errorCodes": 240}

}

# Sample Code in C#.net to integrate this API with Tax Payer System

##  Encryption and Decryption

Asymmetric Key Encryption (RSA)

The following C#.Net code snippet can be used for encrypting the password and the appkey using the public key given by the E-way bill System. The encryption method used here is RSA.

public static string EncryptAsymmetric(string data, string key)

 {

 byte[] keyBytes = Convert.FromBase64String(key);

AsymmetricKeyParameter asymmetricKeyParameter = PublicKeyFactory.CreateKey(keyBytes);

 RsaKeyParameters rsaKeyParameters = (RsaKeyParameters)asymmetricKeyParameter;

 RSAParameters rsaParameters = new RSAParameters();

 rsaParameters.Modulus = rsaKeyParameters.Modulus.ToByteArrayUnsigned();

 rsaParameters.Exponent = rsaKeyParameters.Exponent.ToByteArrayUnsigned();

 RSACryptoServiceProvider rsa = new RSACryptoServiceProvider();

 rsa.ImportParameters(rsaParameters);

 byte[] plaintext = Encoding.UTF8.GetBytes(data);

 byte[] ciphertext = rsa.Encrypt(plaintext, false);

 string cipherresult = Convert.ToBase64String(ciphertext);

 return cipherresult;

 }

Symmetric Key Encryption (AES)

The following C#.Net code snippet can be used for encrypting the data using the symmetric key.

public static string EncryptBySymmetricKey(string text, string sek)

 {

 //Encrypting SEK

 try

 {

 byte[] dataToEncrypt = Convert.FromBase64String(text);

 var keyBytes = Convert.FromBase64String(sek);

 AesManaged tdes = new AesManaged();

 tdes.KeySize = 256;

 tdes.BlockSize = 128;

 tdes.Key = keyBytes;

 tdes.Mode = CipherMode.ECB;

 tdes.Padding = PaddingMode.PKCS7;

 ICryptoTransform encrypt\_\_1 = tdes.CreateEncryptor();

 byte[] deCipher = encrypt\_\_1.TransformFinalBlock(dataToEncrypt, 0, dataToEncrypt.Length);

 tdes.Clear();

 string EK\_result = Convert.ToBase64String(deCipher);

 return EK\_result;

 }

 catch (Exception ex)

 {

 throw ex;

 }

 }

Symmetric Decryption (AES)

The following C#.Net code snippet can be used for decrypting the encrypted string using the key.

public static byte[] DecryptBySymmetricKey(string encryptedText, byte[] key)

 {

 //Decrypting SEK

 try

 {

 byte[] dataToDecrypt = Convert.FromBase64String(encryptedText);

 var keyBytes = key;

 AesManaged tdes = new AesManaged();

 tdes.KeySize = 256;

 tdes.BlockSize = 128;

 tdes.Key = keyBytes;

 tdes.Mode = CipherMode.ECB;

 tdes.Padding = PaddingMode.PKCS7;

 ICryptoTransform decrypt\_\_1 = tdes.CreateDecryptor();

 byte[] deCipher = decrypt\_\_1.TransformFinalBlock(dataToDecrypt, 0, dataToDecrypt.Length);

 tdes.Clear();

 string EK\_result = Convert.ToBase64String(deCipher);

 return EK\_result;

 }

 catch (Exception ex)

 {

 throw ex;

 }

 }

##  Sample code to generate Access token

Public void GetAuthToken()

Step 1: Get the public key from the file stored in the folder and remove the string “----- BEGIN PUBLIC KEY-----“ at the start and "-----END PUBLIC KEY-----" at the end

{

using (var reader = File.OpenText(@"D:\ConsumeEwayBillAPI\ewaybill\_publickey.pem"))

public\_key = reader.ReadToEnd().Replace("-----BEGIN PUBLIC KEY-----","").Replace("-----END PUBLIC KEY-----","").Replace("\n","");

Step 2: Create Http request object with headers and payload to consume authentication API

HttpWebRequest request =

(HttpWebRequest)WebRequest.Create ("http://ewaybill2.nic.in/ewaybillapi/v1.02/Authenticate");

request.Method = "POST";

request.KeepAlive = true;

request.AllowAutoRedirect = false;

request.Accept = "\*/\*";

Step 3: Set the client-id , client secret as given by E-way bill system, and set your GSTIN

request.ContentType = "application/json";

request.Headers.Add("client-id", "test\_clientid");

request.Headers.Add("client-secret", "test\_client\_secret");

request.Headers.Add("gstin", "testgstin");

Step 4: Encrypt the password using the Public key of the E-way bill system. This will be the encrypted password.

string encPassword = Encrypt("testpwd", public\_key);

Step 5: Create a secure key by calling random function and convert the same to Base64. Encrypt the secure key by the Public key of the E-way bill system. This will be the encrypted app key.

byte[] \_aeskey = encdec.generateSecureKey(); //common.RandomString(32); //

string straesKey = Convert.ToBase64String(\_aeskey);

string encAppKey = encdec.Encrypt(\_aeskey, public\_key);

Step 6: Set the action as ‘ACCESSTOKEN’. Set the username as given by the E-way bill system to you. Set the Encrypted password (previously generated). Set the Encrypted App key (previously generated )

RequestPayload aRequestPayload = new RequestPayload();

aRequestPayload.action = "ACCESSTOKEN";

aRequestPayload.username = "testacc";

aRequestPayload.password = encPassword;

aRequestPayload.app\_key = encAppKey;

Step 7: Post the API request and receive the response for auth token

JavaScriptSerializer serial1 = new JavaScriptSerializer();

using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(aRequestPayload);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 AuthResponse objresp = new AuthResponse();

 objresp = serial1.Deserialize <AuthResponse> (result);

 string decryptedappkey = encdec.DecryptSymmetric(objresp.sek, straesKey);

}

##  Sample code to generate E-way Bill

Public GeneratedEwayBill()

Step 1: Prepare the request object by setting the URL, client-id, client secret, GSTIN, and Auth token received from the previous API.

 {

 HttpWebRequest request =

 (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1.01/EwayApi");

 request.Method = "POST";

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

Step 2: Prepare the JSON string with all parameters. Post the request and receive the response. Refer the annexure for the parameter details.

 ewayapi.Entities.EwayBillApiRequest ewbReq = new

 ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = "GENEWAYBILL";

 //Serialised JSON Data

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

string jsonData = “{\"supplyType\":\"O\",\"subSupplyType\":\"1\",\"DocType\":\"INV\",\"docNo\":\"65656565\",\"docDate\":\"10/03/2018\",\"fromGstin\":\"08AAAFW1939J1ZX\",\"actFromStateCode\":\"29\",\"actToStateCode\":\"29\",\"totInvValue\":\"10.0\",\"fromTrdName\":\"test\",\"fromAddr1\":\"4556\",\"fromAddr2\":\"hulimavu\",\"fromPlace\":\"bannargatta\",\"fromPincode\":545454,\"fromStateCode\":29,\"toGstin\":\"05AAAAZ1723G1ZR\",\"toTrdName\":\"test2\",\"toAddr1\":\"toaddress1\",\"toAddr2\":\"toaddress2\",\"toPlace\":\"toplace\",\"toPincode\":899879,\"toStateCode\":29,\"totalValue\":68000,\"cgstValue\":10,\"sgstValue\":10,\"igstValue\":0,\"cessValue\":1800,\"transporterName\":\"\",\"transporterId\":\"29AAACG0569P1Z3\",\"transDocNo\":\"12345\",\"transMode\":\"1\",\"transDocDate\":\"10/03/2018\",\"transDistance\":\"20\",\"vehicleType\":\"r\",\"vehicleNo\":\"RJ191G5024 \",\"ItemList\":[{\"productName\":\"CEMENT\",\"hsnCode\":25210010,\"quantity\":2,\"cgstRate\":10,\"sgstRate\":10,\"igstRate\":0,\"cessRate\":1,\"cessAdvol\":0},{\"productName\":\"steel\",\"productDesc\":\"steel rods\",\"hsnCode\":2402,\"quantity\":4,\"qtyUnit\":\"NOS\",\"cgstRate\":10,\"sgstRate\":10,\"igstRate\":0,\"cessRate\":3,\"cessAdvol\":0}]}";

ewbReq.data = encdec.EncryptBySymmetricKey(Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

Step 3: Receive the response. Decrypt using sek and Decode the Base 64 string to plain text

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec.DecryptBySymmetricKey(ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

##  Sample code to update Vehicle

Public void UpdateVehicle

{

 HttpWebRequest request = (HttpWebRequest)WebRequest

.Create("http:// ewaybill2.nic.in/ewaybillapi/EwayApi");

 request.Method = "POST";

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new

 ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = "VEHEWB";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

string jsonData = "{\"ewbNo\":111000609282,\"vehicleNo\":\"PQR1234\",\"fromPlace\":\"BANGALORE\",\"fromState\":29,\"reasonCode\":\"1\",\"reasonRem\":\"vehicle broke down\", \"transMode\":\"1\", \"transDocNo\":\"1\",\"transDocDate\":\"10/11/2017\"}";

 ewbReq.data = encdec.EncryptBySymmetricKey(Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

Step 3: Receive the response. Decrypt and Decode the Base 64 string to plain text

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec.DecryptBySymmetricKey(ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

##  Sample code to Generate Consolidated Eway bill

Public void GenerateConsolidatedEwb()

{

 HttpWebRequest request = (HttpWebRequest)WebRequest

. Create("http:// ewaybill2.nic.in/ewaybillapi/EwayApi");

 request.Method = "POST";

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new

 ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = "GENCEWB";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

 string jsonData = "{\"fromPlace\":\"BANGALORE SOUTH\",\"fromState\":\"29\",\"vehicleNo\":\"KA12AB1234\",\"transMode\":\"1\", \"TransDocNo\":\"1\",\"TransDocDate\":\"10/11/2017\", \"tripSheetEwbBills\":[{\"ewbNo\":111000609282},{\"ewbNo\":181000609270}]}";

ewbReq.data = encdec.EncryptBySymmetricKey(Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

Step 3: Receive the response. Decrypt using sek and Decode the Base 64 string to plain text

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec.DecryptBySymmetricKey(ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

##  Sample code to Cancel Eway bill

Public void CancelEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1.02/EwayApi");

 request.Method = "POST";

 /\*Optional\*/

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new

 ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = "CANEWB";

JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

string jsonData = "{\"ewbNo\":111000609282,\"cancelRsnCode\":2,\"cancelRmrk\":\"Cancelled the order\"}";

ewbReq.data = encdec. EncryptBySymmetricKey (Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

Step 3: Receive the response. Decrypt and Decode the Base 64 string to plain text

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec.DecryptBySymmetricKey(ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

##  Sample code to Reject Eway bill

Public void RejectEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1.02/EwayApi");

 request.Method = "POST";

 /\*Optional\*/

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = "REJEWB";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

 string jsonData = = "{\"ewbNo\":111000609282}";

ewbReq.data = encdec. EncryptBySymmetricKey (Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec. DecryptBySymmetricKey (ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

## Sample code to Update Transporter

Public void RejectEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1.01/EwayApi");

 request.Method = "POST";

 /\*Optional\*/

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = " UPDATETRANSPORTER ";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

 string jsonData = = "{\"ewbNo\": 171000611199, \"transporterId\":\" 05AAAAZ1723G1ZR \" } ";

ewbReq.data = encdec. EncryptBySymmetricKey (Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec. DecryptBySymmetricKey (ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

##  Sample Code for Extend Validity of E-way Bill

Public void RejectEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1/EwayApi");

 request.Method = "POST";

 /\*Optional\*/

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = " EXTENDVALIDITY ";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

 string jsonData = "{\"ewbNo\": 171000611199,\"vehicleNo\": \"PQR1234\",\"fromPlace\":\"Bengaluru\",\"fromState\":29,\"remainingDistance\":50,\"transDocNo\": \"1234 \",\"transDocDate\": \"12/04/2018 \", \"transMode\": \"1\", \"extnRsnCode\":1,\"extnRemarks\":\"Flood\"}";

ewbReq.data = encdec. EncryptBySymmetricKey (Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec. DecryptBySymmetricKey (ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

## Sample code for Regenerate Consolidated E-way Bill

Public void RejectEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1/EwayApi");

 request.Method = "POST";

 /\*Optional\*/

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 ewayapi.Entities.EwayBillApiRequest ewbReq = new ewayapi.Entities.EwayBillApiRequest();

 ewbReq.action = " REGENTRIPSHEET ";

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

**// Following is for illustration purpose only , Actual JSOM format from the Sample JSON / Schema may be referred**

 string jsonData =  "{\"tripSheetNo\": 7810004903,\"vehicleNo\": \"PQR1234\",\"fromPlace\":\"Bengaluru\",\"fromState\":29,\"transDocNo\": \"1234 \",\"transDocDate\": \"12/10/2017 \", \"transMode\": \"2\", \"reasonCode\":6,\"reasonRem\":\"Flood\"}";

ewbReq.data = encdec. EncryptBySymmetricKey (Convert.ToBase64String(System.Text.Encoding.UTF8.GetBytes(jsonData)), sek);

 using (var streamWriter = new StreamWriter(request.GetRequestStream()))

 {

 string json = serial1.Serialize(ewbReq);

 streamWriter.Write(json);

 streamWriter.Flush();

 streamWriter.Close();

 }

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 serial1 = new JavaScriptSerializer();

 ewayapi.Entities.EwayBillApiResponse ewbres =

 serial1.Deserialize<ewayapi.Entities.EwayBillApiResponse>(result);

string data = encdec. DecryptBySymmetricKey (ewbres.data, Convert.FromBase64String(sek));

yte[] reqDatabytes = Convert.FromBase64String(data);

 string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);}

}

##  Sample code for Get Methods

Public void GetEwayBill()

{

HttpWebRequest request = (HttpWebRequest)WebRequest.Create("http://ewaybill2.nic.in/ewaybillapi/v1.02/EwayApi/GetEwayBill?ewbNo=191000001846");

request.Method = "GET";

 request.KeepAlive = true;

 request.AllowAutoRedirect = false;

 request.Accept = "\*/\*";

 request.ContentType = "application/json";

 request.Headers.Add("client-id", "TESTCLIENTID");

 request.Headers.Add("client-secret", "CLIENTSECRET");

 request.Headers.Add("gstin", "29AAACGIIIII1Z3");

 request.Headers.Add("authtoken", "0aAjBKdo7rcNYJB30g5DS2u8z");

 WebResponse response = request.GetResponse();

 string result = new StreamReader(response.GetResponseStream()).ReadToEnd();

 JavaScriptSerializer serial1 = new JavaScriptSerializer();

ewayapi.Entities.EwayBillApiResponseForGet ewbres = serial1.Deserialize<ewayapi.Entities.EwayBillApiResponseForGet>(result);

string rek = encdec.DecryptBySymmetricKey (ewbres.rek, Convert.FromBase64String(sek));

string data = encdec.DecryptBySymmetricKey (ewbres.data, Convert.FromBase64String(rek));

byte[] reqDatabytes = Convert.FromBase64String(data);

 //byte[] reqDatabytes = Convert.FromBase64String(ewbres.data); string requestData = System.Text.Encoding.UTF8.GetString(reqDatabytes);

 //string hmac = encdec.GenerateHMAC(requestData, Convert.FromBase64String(rek));

string hmac = encdec.GenerateHMAC(data, Convert.FromBase64String(rek)); if (ewbres.hmac == hmac){

 }

}

# Sample Code in Java to integrate this API with Tax Payer System

## Asymmetric Encryption (RSA)

The following Java code snippet can be used for encrypting the password and the appkey using the public key given by the E-way bill System. The encryption method used here is RSA.

public static String encryptAsymmetricKey(String pubkey, String password) throws Exception{

 PublicKey publicKeys = convertPubStringToKey(pubkey);

 Cipher cipher = Cipher.getInstance("RSA/ECB/PKCS1PADDING");

 cipher.init(Cipher.ENCRYPT\_MODE, publicKeys);

 byte[] encryptedText = cipher.doFinal(password.getBytes());

 String encryptedPassword = Base64.encodeBase64String(encryptedText);

 return encryptedPassword;

 }

private static PublicKey convertPubStringToKey(String publikkey)

{

 PublicKey pubKey = null;

 byte[] publicBytes = Base64.decodeBase64(publikkey);

 X509EncodedKeySpec keySpec = new X509EncodedKeySpec(publicBytes);

 KeyFactory keyFactory;

 try {

 keyFactory = KeyFactory.getInstance("RSA");

 pubKey = keyFactory.generatePublic(keySpec);

 } catch (Exception e)

 {

 e.printStackTrace();

 }

 return pubKey;

}

public static String encryptAsymmetricKey(String pubkey, byte[] appKey) throws Exception

{

 PublicKey publicKeys = covertPubStringToKey(pubkey);

 Cipher cipher = Cipher.getInstance("RSA/ECB/PKCS1PADDING");

 cipher.init(Cipher.ENCRYPT\_MODE, publicKeys);

 byte[] encryptedText = cipher.doFinal(appKey);

 String encryptedAppKey = Base64.encodeBase64String(encryptedText);

 return encryptedAppKey;

}

## Asymmetric Decryption (RSA)

## **<Asymmetric decryption Java code has to go here>**Symmetric Key Encryption using Java

private static String encryptBySymmetricKey(String json, String decryptedSek)

{

 byte[] sekByte = Base64.decodeBase64(decryptedSek);

 Key aesKey = new SecretKeySpec(sekByte, "AES");

 try {

 Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding");

 cipher.init(Cipher.ENCRYPT\_MODE, aesKey);

 byte[] encryptedjsonbytes = cipher.doFinal(json.getBytes());

 String encryptedJson = Base64.encodeBase64String(encryptedjsonbytes);

 return encryptedJson;

 }

 catch(Exception e) {

 return "Exception "+e;

 }

}

## Symmetric Key Decryption using Java

public static String decrptyBySyymetricKey(String encryptedSek, byte[] appKey)

 {

 Key aesKey = new SecretKeySpec(appKey, "AES"); // converts bytes(32 byte random generated) to key

 try {

 Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding"); // encryption type = AES with padding PKCS5

 cipher.init(Cipher.DECRYPT\_MODE, aesKey); // initiate decryption type with the key

 byte[] encryptedSekBytes = Base64.decodeBase64(encryptedSek); // decode the base64 encryptedSek to bytes

 byte[] decryptedSekBytes = cipher.doFinal(encryptedSekBytes); // decrypt the encryptedSek with the initialized cipher containing the key(Results in bytes)

String decryptedSek = Base64.encodeBase64String(decryptedSekBytes); // convert the decryptedSek(bytes) to Base64 StriNG

 return decryptedSek; // return results in base64 string

 }catch(Exception e)

{

 return "Exception; "+e;

 }

}

# Annexure -A : Data Structure Specification –

## Annexure –A1 : E-way Bill Generation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
|  |  |  |  |  |  |
| supplyType | Text(1) | Supply whether it is outward/inward. | Refer Code List | O |   |
| subSupplyType | Text(2) | Sub types of Supply  | Refer Code List | 2 |   |
| subSypplyDesc | Text(20) | Su Supply Description if selected “Others” in subSupplyType |  |  |  |
| docType  | Text(3) | Document Type | Refer Code List | CHL |   |
| docNo  | Text(16) | Document No |   | 12 | Alphanum, -, / |
| docDate  | Text | Document Date | dd/mm/yyyy format | 12/09/2017 |   |
| fromGstin  | Text(15) | GSTIN of the Consignor |   | 29AAAAA0300L1Z8 | Alphanum |
| fromTrdName  | Text(100) | LegalName of consignor |   | ABHYUDHYA CO OP BANK | Alphanumeric |
| fromAddr1  | Text(120) | Address of consignor - Line 1 |   | Shambhai Fortune | Alphanumeric |
| fromAddr2  | Text(120) | Address of consignor - Line 2 |   | Behind KSRTC Bus Stop | Alphanumeric |
| fromPlace  | Text(50) | Place of consignor |   | Bengaluru | Alphabetic |
| fromPincode  | Number(6) | Pincode of consignor |   | 576101 | Number |
| fromStateCode  | Number(2) | State of consignor | Refer Code List | 29 |   |
| actFromStateCode | Number(2) | State of Supply | Refer Code List | 4 |  |
| toGstin  | Text(15) | GSTIN of consignee |   | 29ACGPI2251K1ZJ | Alphanumeric |
| toTrdname  | Text(100) | Legalname of consignee |   | INDER CHHAJER | Alphanumeric |
| toAddr1  | Text(120) | Address of consignee - Line 1 |   | PRIYADARSHANI LAYOUT  | Alphanumeric |
| toAddr2  | Text(120) | Address of consignee- Line 2 |   | MUDALAYAPALYA  | Alphanumeric |
| toPlace  | Text(50) | Place of consignee |   | Bengaluru | Alphabetic |
| toPincode  | Number(6) | Pincode of the consignee |   | 560072 | Number |
| toStateCode  | Number(2) | State of Supply | Refer Code List | 4 |   |
| actToStateCode | Number(2) | State of Supply | Refer Code List | 4 |  |
| totalValue  | Decimal(18,2) | Total Amount/ Taxable Amount |   | 2000 |   |
| totInvValue | Decimal(18,2) | Total Invoice Value |  |  |  |
| cgstValue  | Decimal(18,2) | CGST Amount  |   | 0 |   |
| sgstValue  | Decimal(18,2) | SGST Amount |   | 0 |   |
| igstValue  | Decimal(18,2) | IGST Amount |   | 240 |   |
| cessValue  | Decimal(18,2) | CESS Amount |   | 20 |   |
| transMode  | Number(1) | Mode of transportation | Refer Code List | 1 |   |
| vehicleType | Char(1) | Type of Vehcile | R or O | R |  |
| transDistance  | Number(5) | Distance of transportation |   | 10 | Max Value = 4000 |
| transporterId | Text(15) | Transporter Id |   | 29BQSPA3829E1Z0 |   |
| transporterName | Text(100) | Transporter Name |   | TAPURI |   |
| transDocNo  | Text(15) | Transporter Doc No |   | 11 |  If it is more than 15 chars, last 15 chars may be entered |
| transDocDate  | Text | Transporter Doc Date | dd/mm/yyyy format | 13/09/2017 |   |
|   |   |   |   |   |   |
| vehicleNo | Text(15) | Vehicle No. | Pl refer Code List | KA12BL4567 | Vehicle No. to begin with state code as given in the Code list |
|  |  |  |   |  |   |
| productName | Text(100) | Name of the Product |   | Steel |   |
| productDesc |  Text(100) | Description of the Product |   | 5mm Rod |   |
| hsnCode | Number(8) | HSN Code of the Product |   | 10101 |   |
| quantity | Decimal(8,2) | Quantity of Product in Numbers |   | QTS |   |
| qtyUnit | Text(3) | Unit of the Product, like Liter,Kg etc | Refer Code List | 200 |   |
| taxableAmount | Decimal(18,2) | Total Amount/ Taxable Amount |   | 100000 |   |
| cgstRate | Decimal(6,3) | CGST Rate |   | 9 |   |
| sgstRate | Decimal(6,3) | SGST Rate |   | 9 |   |
| igstRate | Decimal(6,3) | IGST Rate |   | 18 |   |
| cessRate | Decimal(6,3) | CESS Rate |   | 0 |   |
|  cessAvdol |   Decimal(6,3) |   |   |   |   |

## Annexure -A2 : Consolidated E-way bill generation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
|  vehicleNo | Text(15) | vehicle number |   | KA12AP1235 | Alpha-numeric |
|  fromPlace | Text(50) | from place of consignor |   | Rajasthan | Alphabetic |
| transMode | Number(3) | Mode of Transportation | Refer Code list | 2 | Number |
| transDocNo | Text(15) | Transporter Document number |  | 12-86/3 | Alphanumeric, -, / If it is more than 15 chars, last 15 chars may be entered |
| transDocDate  | Text | Transporter Document Date | dd/mm/yyyy format | 12/09/2017 |   |
| fromState | Number(2) | State of Consignor | Refer Code list | 8 |  |
| tripSheetEwbBills |  | List of eway bills |  |  |  |
| ewbNo | Number(12) | E-way bill Number generated |   | 345654565456  | Number |

## Annexure -A3: Update Vehicle number

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
| ewbNo | Number(12) | E-way bill Generated |   | 131000026768  | Numbers |
|  vehicleNo | Text(15) | Vehicle number |   | KA12TR1234 | Alpha-numeric |
| fromPlace | Text(50) | Place of Consignor |   | BANGALORE SOUTH | Alpha-numeric |
| fromState | Number(2) | State of Consignor | Refer Code list | 29 | Numbers |
| reasonCode | Number(1) | Reason code for vehicle updation | Refer Code list | 2 | Numbers |
| reasonRem | Text(50) | Reason for Vehicle Updation |   | Vehicle details updated | Alpha-numeric |
| transDocNo | Text(15) | Transporter Document number |  | 12-86/3 | Alphanumeric, -, / |
| transDocDate  | Text | Transporter Document Date | dd/mm/yyyy format | 12/09/2017 |   |
| transMode | Number(1) | Mode of Transport | Refer Code list | 1 | Numbers |
| vehicleType | Char(1) | Type of Vehcile | R or O | R |  |

## Annexure -A4: Cancel E-way bill

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
| ewbNo | Number(12) | E-way bill Generated |   | 131000026768  | Numbers |
| cancelRsnCode | Number(1) | Reason code for cancelling eway bill | Refer Code list | 2 | Numbers |
|  cancelRmrk | Text(50) | Reason for - cancelling eway bill |   | Vehicle details not updated | Alpha-numeric |

## Annexure A5- Reject e-way bill

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
|  ewbNo | Number(12) | E-way bill Generated |   | 131000026768  | Numbers |

## Annexure A6- Update Transporter

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
|  ewbNo | Number(12) | E-way bill Generated |   | 131000026768  | Numbers |
| transporterId | Text(15) | Transporter Id |   | 29BQSPA3829E1Z0 |   |

## Annexure A7- Extend Validity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
|  ewbNo | Number(12) | E-way bill number |   | 131000026768  | Numbers |
|  vehicleNo | Text(15) | Vehicle number |   | KA12TR1234 | Alpha-numeric |
| fromPlace | Text(50) | Current place |   | BANGALORE SOUTH | Alpha-numeric |
| fromState | Number(2) | Current State  | Refer Code list | 29 | Numbers |
| remainingDistance | Number(5) | Distance remaining to reach destination |   | 10 | Max Value = 4000 |
| transDocNo | Text(15) | Transporter Document number |  | 12-86/3 | Alphanumeric, -, / If it is more than 15 chars, last 15 chars may be entered |
| transDocDate | Text | Transporter Document Date | dd/mm/yyyy format | 12/09/2017 |   |
| transMode | Number(1) | Mode of Transport | Refer Code list | 1 | Numbers |
| extnRsnCode | Number(1) | Reason code for extension of eway bill | Refer Code list | 2 | Numbers |
|  extnRemarks | Text(50) | Reason for – Extension of eway bill |   | Vehicle details not updated | Alpha-numeric |

## Annexure A8- Regeneration of Consolidated e-way bill

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Description** | **Values** | **Sample Data** | **Allowed character** |
| tripSheetNo | Number(10) | Consolidated E-Way Bill No (TripSheet No) |   | 1310006768  | Numbers |
| vehicleNo | Text(15) | Vehicle number |   | KA12TR1234 | Alpha-numeric |
| fromPlace | Text(50) | Current place |   | BANGALORE SOUTH | Alpha-numeric |
| fromState | Number(2) | Current State  | Refer Code list | 29 | Numbers |
| reasonCode | Number(2) | Reason code for Regeneration of Consolidated E-Way Bill | Refer Code list | 2 | Numbers |
| reasonRem | Text(50) | Reason for Regeneration of Consolidated E-Way Bill |   | Vehicle details updated | Alpha-numeric |
| transDocNo | Text(15) | Transporter Document number |  | 12-86/3 | Alphanumeric, -, / If it is more than 15 chars, last 15 chars may be entered |
| transDocDate | Text | Transporter Document Date | dd/mm/yyyy format | 12/09/2017 |   |
| transMode | Number(1) | Mode of Transport | Refer Code list | 1 | Numbers |

# Annexure B – Master codes List

|  |  |  |
| --- | --- | --- |
| **Master Name** | **Code** | **Description** |
| **Supply Type** | I | Inward |
|   | O | Outward |
|   |   |   |
| **Sub Supply Type** | 1 | Supply |
|   | 2 | Import |
|   | 3 | Export |
|   | 4 | Job Work |
|   | 5 | For Own Use |
|   | 6 | Job work Returns |
|   | 7 | Sales Return |
|   | 8 | Others |
|   | 9 | SKD/CKD |
|   | 10 | Line Sales |
|   | 11 | Recipient Not Known |
|   | 12 | Exhibition or Fairs |
|   |   |   |
| **Document Type** | INV | Tax Invoice |
|   | BIL | Bill of Supply |
|   | BOE | Bill of Entry |
|   | CHL | Delivery Challan |
|   | CNT | Credit Note |
|   | OTH | Others |
|   |   |   |
| **Transportation Mode** | 1 | Road |
|   | 2 | Rail |
|   | 3 | Air |
|   | 4 | Ship |
|   |   |   |
| **Unit** | BAG | BAGS  |
|  | BAL | BALE |
|  | BDL | BUNDLES  |
|  | BKL | BUCKLES |
|  | BOU | BILLION OF UNITS |
|  | BOX | BOX |
|  | BTL | BOTTLES |
|  | BUN | BUNCHES |
|  | CAN | CANS |
|  | CBM | CUBIC METERS |
|  | CCM | CUBIC CENTIMETERS |
|  | CMS | CENTI METERS  |
|  | CTN | CARTONS |
|  | DOZ | DOZENS  |
|  | DRM | DRUMS |
|  | GGK | GREAT GROSS |
|  | GMS | GRAMMES |
|  | GRS | GROSS |
|  | GYD | GROSS YARDS |
|  | KGS | KILOGRAMS |
|  | KLR | KILOLITRE |
|  | KME | KILOMETRE |
|   |  MLT | MILILITRE |
|  | MTS | METRIC TON |
|  | NOS | NUMBERS |
|  | OTH | OTHERS |
|  | PAC | PACKS |
|  | PCS | PIECES |
|  | PRS | PAIRS |
|  | QTL | QUINTAL |
|  | ROL | ROLLS |
|  | SET | SETS |
|  | SQF | SQUARE FEET |
|  | SQM | SQUARE METERS |
|  | SQY | SQUARE YARDS |
|  | TBS | TABLETS |
|  | TGM | TEN GROSS |
|  | THD | THOUSANDS |
|  | TON | TONNES |
|  | TUB | TUBES |
|  | UGS | US GALLONS |
|  | UNT | UNITS |
|  | YDS | YARDS |
|   |   |   |
| **State Code** |  |  |
|   | 1 | JAMMU AND KASHMIR |
|   | 2 | HIMACHAL PRADESH |
|   | 3 | PUNJAB |
|   | 4 | CHANDIGARH |
|   | 5 | UTTARAKHAND |
|   | 6 | HARYANA |
|   | 7 | DELHI |
|   | 8 | RAJASTHAN |
|   | 9 | UTTAR PRADESH |
|   | 10 | BIHAR |
|   | 11 | SIKKIM |
|   | 12 | ARUNACHAL PRADESH |
|   | 13 | NAGALAND |
|   | 14 | MANIPUR |
|   | 15 | MIZORAM |
|   | 16 | TRIPURA |
|   | 17 | MEGHALAYA |
|   | 18 | ASSAM |
|   | 19 | WEST BENGAL |
|   | 20 | JHARKHAND |
|   | 21 | ORISSA |
|   | 22 | CHHATTISGARH |
|   | 23 | MADHYA PRADESH |
|   | 24 | GUJARAT |
|   | 25 | DAMAN AND DIU |
|   | 26 | DADAR AND NAGAR HAVELI |
|   | 27 | MAHARASTRA |
|   | 37 | ANDHRA PRADESH |
|   | 29 | KARNATAKA |
|   | 30 | GOA |
|   | 31 | LAKSHADWEEP |
|   | 32 | KERALA |
|   | 33 | TAMIL NADU |
|   | 34 | PONDICHERRY |
|   | 35 | ANDAMAN AND NICOBAR |
|   | 36 | TELANGANA |
|  | 97 | OTHER TERRITORY |
|  | 99 | OTHER COUNTRY |
|   |   |   |
| **Reason codes for Vehicle Update and Regeneration of Consolidated E Way Bill** | 1 | Due to Break Down |
|   | 2 | Due to Transshipment |
|   | 3 | Others (Pls. Specify) |
|   | 4 | First Time |
|  |  |  |
| Mode of generation code | API | Application Programming Interface |
|  | Exc | Bulk Upload |
|  | SMS | SMS Facility |
|  | APP | Mobile APP |
|  | WEB | Web based system |
|  |  |  |
| Valid Formats of Vehicle Numbers |  | AB121234 (First 2 char are State Code) |
|  |  | AB12A1234 (First 2 char are State Code) |
|  |  | AB12AB1234 (First 2 char are State Code) |
|  |  | ABC1234  |
|  |  | AB123A1234 (First 2 char are State Code) |
|  |  | DFXXXXXX (Defence Vehicle) |
|  |  | TRXXXXXXXXXXXXX (Temp RC) At least 7 characters |
|  |  | BPXXXXXXXXXXXXX (Bhutan Vehicle) At least 7 characters |
|  |  | NPXXXXXXXXXXXXX (Nepal Vehicle) At least 7 characters |
|  |  |  |
| E-way Bill Status | ACT | Active |
|  | CNL | Cancelled |
|  |  |  |
| Cancellation -Reason Codes  | 1 | Duplicate |
|  | 2 | Order Cancelled |
|  | 3 | Data Entry mistake |
|  | 4 | Others |
| Reasons for extension of validity | 1 | Natural Calamity |
|  | 2 | Law and Order Situation |
|  | 4 | Transshipment |
|  | 5 | Accident |
|  | 99 | Other |

# Annexure C – API Error codes List

|  |  |
| --- | --- |
| Error Code | Desc |
| 100 | Invalid Json |
| 101 | Invalid Username |
| 102 | Invalid Password |
| 103 | Invalid Client -Id |
| 104 | Invalid Client -Id |
| 105 | Invalid Token |
| 106 | Token Expired |
| 107 | Authentication failed. Pls. inform the helpdesk |
| 108 | Invalid login credentials. |
| 109 | Decryption of data failed |
| 110 | Invalid Client-ID/Client-Secret |
| 111 | GSTIN is not registerd to this GSP |
| 201 | Invalid Supply Type |
| 202 | Invalid Sub-supply Type |
| 203 | Sub-transaction type does not belongs to transaction type |
| 204 | Invalid Document type |
| 205 | Document type does not match with transaction & Sub trans type |
| 206 | Invaild Invoice Number |
| 207 | Invalid Invoice Date |
| 208 | Invalid Supplier GSTIN |
| 209 | Blank Supplier Address |
| 210 | Invalid or Blank Supplier PIN Code |
| 211 | Invalid or Blank Supplier state Code |
| 212 | Invalid Consignee GSTIN |
| 213 | Invalid Consignee Address |
| 214 | Invalid Consignee PIN Code |
| 215 | Invalid Consignee State Code |
| 216 | Invalid HSN Code |
| 217 | Invalid UQC Code |
| 218 | Invalid Tax Rate for Intra State Transaction |
| 219 | Invalid Tax Rate for Inter State Transaction |
| 220 | Invalid Trans mode |
| 221 | Invalid Approximate Distance |
| 222 | Invalid Transporter Id |
| 223 | Invalid Transaction Document Number |
| 224 | Invalid Transaction Date |
| 225 | Invalid Vehicle Number Format |
| 226 | Both Transaction and Vehicle Number Blank |
| 227 | User Gstin cannot be blank |
| 228 | User id cannot be blank |
| 229 | Supplier name is required |
| 230 | Supplier place is required |
| 231 | Consignee name is required |
| 232 | Consignee place is required |
| 233 | Eway bill does not contains any items |
| 234 | Total amount/Taxable amout is mandatory |
| 235 | Tax rates for Intra state transaction is blank |
| 236 | Tax rates for Inter state transaction is blank |
| 237 | Invalid client -Id/client-secret |
| 238 | Invalid auth token |
| 239 | Invalid action |
| 240 | Could not generate eway bill, pls contact helpdesk |
| 278 | User Gstin does not match with Transporter Id |
| 280 | Status is not ACTIVE |
| 281 | Eway Bill is already expired hence update transporter is not allowed. |
| 301 | Invalid eway bill number |
| 302 | Invalid transporter mode |
| 303 | Vehicle number is required |
| 304 | Invalid vehicle format |
| 305 | Place from is required |
| 306 | Invalid from state |
| 307 | Invalid reason |
| 308 | Invalid remarks |
| 309 | Could not update vehicle details, pl contact helpdesk |
| 311 | Validity period lapsed, you cannot update vehicle details |
| 312 | This eway bill is either not generated by you or cancelled |
| 315 | Validity period lapsed, you cannot cancel this eway bill |
| 316 | Eway bill is already verified, you cannot cancel it |
| 317 | Could not cancel eway bill, please contact helpdesk |
| 320 | Invalid state to |
| 321 | Invalid place to |
| 322 | Could not generate consolidated eway bill |
| 325 | Could not retrieve data |
| 326 | Could not retrieve GSTIN details for the given GSTIN number |
| 327 | Could not retrieve data from hsn |
| 328 | Could not retrieve transporter details from gstin |
| 329 | Could not retrieve States List |
| 330 | Could not retrieve UQC list |
| 331 | Could not retrieve Error code |
| 334 | Could not retrieve user details by userid  |
| 336 | Could not retrieve transporter data by gstin  |
| 337 | Could not retrieve HSN details for the given HSN number |
| 350 | Could not generate consolidated eway bill |
| 351 | Invalid state code |
| 352 | Invalid rfid date |
| 353 | Invalid location code |
| 354 | Invalid rfid number |
| 355 | Invalid Vehicle Number Format |
| 356 | Invalid wt on bridge |
| 357 | Could not retrieve eway bill details, pl. contact helpdesk |
| 358 | GSTIN passed in request header is not matching with the user gstin mentioned in payload JSON |
| 359 | User GSTIN should match to GSTIN(from) for outward transactions |
| 360 | User GSTIN should match to GSTIN(to) for inward transactions |
| 361 | Invalid Vehicle Type |
| 362 | Transporter document date cannot be earlier than the invoice date |
| 363 | E-way bill is not enabled for intra state movement for you state |
| 364 | Error in verifying eway bill |
| 365 | Error in verifying consolidated eway bill |
| 366 | You will not get the ewaybills generated today, howerver you cann access the ewaybills of yester days |
| 367 | Could not retrieve data for officer login |
| 368 | Could not update transporter |
| 369 | GSTIN/Transin passed in request header should match with the transported Id mentioned in payload JSON |
| 370 | GSTIN/Transin passed in request header should not be the same as supplier(fromGSTIN) or recepient(toGSTIN) |
| 371 | Invalid or Blank Supplier Ship-to State Code |
| 372 | Invalid or Blank Consignee Ship-to State Code |
| 373 | The Supplier ship-from state code should be Other Country for Sub Supply Type- Export |
| 374 | The Consignee pin code should be 999999 for Sub Supply Type- Export |
| 375 | The Supplier ship-to state code should be Other Country for Sub Supply Type- Import |
| 376 | The Supplier pin code should be 999999 for Sub Supply Type- Import |
| 377 | Sub Supply Type is mentioned as Others, the description for that is mandatory |
| 378 | The supplier or conginee belong to SEZ, Inter state tax rates are applicable here |
| 379 | Eway Bill can not be extended.. Already Cancelled |
| 380 | Eway Bill Can not be Extended. Not in Active State |
| 381 | There is No PART-B/Vehicle Entry.. So Please Update Vehicle Information.. |
| 382 | You Cannot Extend as EWB can be Extended only 8 hour before or after w.r.t Validity of EWB..!! |
| 383 | Error While Extending..Please Contact Helpdesk.  |
| 384 | You are not current transporter or Generator of the ewayBill, with no transporter details. |
| 385 | For Rail/Ship/Air transDocNo and transDocDate is mandatory |
| 386 | Reason Code, Remarks is mandatory. |
| 387 | No Record Found for Entered consolidated eWay bill. |
| 388 | Exception in regenration of consolidated eWayBill!!Please Contact helpdesk |
| 389 | Remaining Distance Required |
| 390 | Remaining Distance Can not be greater than Actual Distance. |
| 391 | No eway bill of specified tripsheet, neither ACTIVE nor not Valid. |
| 392 | Tripsheet is already cancelled, Hence Regeration is not possible |
| 393 | Invalid GSTIN |
| 394 | For other than Road Transport, TransDoc number is required |
| 395 | Eway Bill Number should be numeric only |
| 396 | Either Eway Bill Number Or Consolidated Eway Bill Number is required for Verification |

# Annexure D - JSON Schema

## D.1.For Generate Ewaybill

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "supplyType": {

 "type": "string",

 "maxLength": 1,

 "minLength": 1,

 "enum": [ "O","I" ],

 "description": "Supply Type"

 },

 "subSupplyType": {

 "type": "string",

 "description": "Sub Supply Type"

 },

 "subSupplyDesc": {

 "type": "string",

 "maxLength": 20,

 "description": "Other Sub Supply Description"

 },

 "docType": {

 "type": "string",

 "enum": [ "INV", "CHL", "BIL","BOE","CNT","OTH" ],

 "description": "Document Type"

 },

 "docNo": {

 "type": "string",

 "maxLength": 16,

 "description": "Document Number (Alphanumeric with / and - are allowed)"

 },

 "docDate": {

 "type": "string",

 "pattern": "[0-3][0-9]/[0-1][0-9]/[2][0][1-2][0-9]",

 "description": "Document Date"

 },

 "fromGstin": {

 "type": "string",

 "maxLength": 15,

 "minLength": 15,

 "pattern": "[0-9]{2}[0-9|A-Z]{13}",

 "description": "From GSTIN (Supplier or Consignor)"

 },

 "fromTrdName": {

 "type": "string",

 "maxLength": 100,

 "description": "From Trade Name (Consignor Trade name)"

 },

 "fromAddr1": {

 "type": "string",

 "maxLength": 120,

 "description": "From Address Line 1 (Valid Special Chars #,-,/)"

 },

 "fromAddr2": {

 "type": "string",

 "maxLength": 120,

 "description": "From Address Line 2(Valid Special Chars # , - ,/)"

 },

 "fromPlace": {

 "type": "string",

 "maxLength": 50,

 "description": "From Place"

 },

 "actFromStateCode": {

 "type": "integer",

 "maximum": 99,

 "description": "Actual From State Code"

 },

 "fromPincode": {

 "type": "integer",

 "maximum": 999999,

 "minimum": 100000,

 "description": "From Pincode"

 },

 "fromStateCode": {

 "type": "integer",

 "maximum": 99,

 "description": "From State Code"

 },

 "toGstin": {

 "type": "string",

 "maxLength": 15,

 "minLength": 15,

 "pattern": "[0-9]{2}[0-9|A-Z]{13}",

 "description": "To GSTIN (Consignee or Recipient)"

 },

 "toTrdName": {

 "type": "string",

 "maxLength": 100,

 "description": "To Trade Name (Consignee Trade name or Recipient Trade name)"

 },

 "toAddr1": {

 "type": "string",

 "maxLength": 120,

 "description": "To Address Line 1 (Valid Special Chars #,-,/)"

 },

 "toAddr2": {

 "type": "string",

 "maxLength": 120,

 "description": "To Address Line 2 (Valid Special Chars #,-,/)"

 },

 "toPlace": {

 "type": "string",

 "maxLength": 50,

 "description": "To Place"

 },

 "toPincode": {

 "type": "integer",

 "description": "To Pincode"

 },

 "actToStateCode": {

 "type": "integer",

 "maximum": 99,

 "description": "Actual To State Code"

 },

 "toStateCode": {

 "type": "integer",

 "maximum": 99,

 "description": "To State Code"

 },

 "totalValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": " Taxable value "

 },

 "cgstValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": "CGST value"

 },

 "sgstValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": "SGST value"

 },

 "igstValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": "IGST value"

 },

 "cessValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": "Cess value"

 },

 "totInvValue": {

 "type": "number",

 "multipleOf": 0.01,

 "description": "Total Invoice Value (Including taxable value, tax value,and other charges if any)"

 },

 "transMode": {

 "type": "string",

 "enum": ["1","2","3","4"],

 "description": "Mode of transport (Road-1, Rail-2, Air-3, Ship-4) "

 },

 "transDistance": {

 "type": "string",

 "description": "Distance (<4000 km) "

 },

 "transporterName": {

 "type": "string",

 "maxLength": 100,

 "description": "Name of the transporter"

 },

 "transporterId": {

 "type": "string",

 "pattern": "[0-9]{2}[0-9|A-Z]{13}",

 "description": "15 Digit Transporter GSTIN/TRANSIN"

 },

 "transDocNo": {

 "type": "string",

 "maxLength": 15,

 "description": "Transport Document Number (Alphanumeric with / and – are allowed)"

 },

 "transDocDate": {

 "type": "string",

 "description": "Transport Document Date"

 },

 "vehicleNo": {

 "type": "string",

 "minLength": 7,

 "maxLength": 15, "description": "Vehicle Number"

 },

 "vehicleType": {

 "type": "string",

 "description": "Vehicle Type"

 },

 "itemList": {

 "type": "array",

 "items": [

 {

 "type": "object",

 "properties": {

 "productName": {

 "type": "string",

 "maxLength": 100,

 "description": "Product / Item Name"

 },

 "productDesc": {

 "type": "string",

 "maxLength": 100,

 "description": "Product / Item description"

 },

 "hsnCode": {

 "type": "number",

 "description": "HSN Code"

 },

 "quantity": {

 "type": "number",

 "description":"Quantity"

 },

 "qtyUnit": {

 "type": "string",

 "maxLength": 3,

 "minLength": 3,

 "description": "Unit"

 },

 "taxableAmount": {

 "type": "number",

 "multipleOf": 0.01,

 "description":"Taxable Amount"

 },

 "sgstRate": {

 "type": "number",

 "multipleOf": 0.001,

 "description":"SGST Rate of Tax"

 },

 "cgstRate": {

 "type": "number",

 "multipleOf": 0.001,

 "description":"CGST Rate of Tax"

 },

 "igstRate": {

 "type": "number",

 "multipleOf": 0.001,

 "description":"IGST Rate of Tax"

 },

 "cessRate": {

 "type": "number",

 "multipleOf": 0.001,

 "description":"Cess Rate of Tax"

 },

 "cessAdvol": {

 "type": "number",

 "description":"Cess Non-Advolerum"

 }

 },

 "required": [

 "hsnCode",

 "taxableAmount"

 ]

 }

 ]

 }

 },

 "required": [

 "supplyType",

 "subSupplyType",

 "docType",

 "docNo",

 "docDate",

 "fromGstin",

 "fromPincode",

 "fromStateCode",

 "toGstin",

 "toPincode",

 "toStateCode",

 "transDistance",

 "itemList",

 "actToStateCode",

 "actFromStateCode"

 ]

}

## D.2 Vehicle Updation

=================

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "ewbNo": {

 "type": "number",

 "description":"Ewaybill Number"

 },

 "vehicleNo": {

 "type": "string",

 "minLength": 7,

 "maxLength": 15,

 "description":"Vehicle Number"

 },

 "fromPlace": {

 "type": "string",

 "maxLength": 50,

 "description":"From Place"

 },

 "fromState": {

 "type": "integer",

 "maximum": 99,

 "description":"From State"

 },

 "reasonCode": {

 "type": "string",

 "maxLength": 1,

 "minLength": 1,

 "description":"Reason Code"

 },

 "reasonRem": {

 "type": "string",

 "maxLength": 50,

 "description":"Remarks"

 },

 "transDocNo": {

 "type": "string",

 "maxLength": 15,

 "description":"Transport Document Number"

 },

 "transDocDate": {

 "type": "string",

 "pattern": "[0-3][0-9]/[0-1][0-9]/[2][0][1-2][0-9]",

 "description":"Transport Document Date"

 },

 "transMode": {

 "type": "string",

 "description":"Transport Mode"

 },

 "vehicleType": {

 "type": "string",

 "description": "Vehicle Type"

 }

 },"required":[

"fromPlace",

"fromState",

"reasonCode",

"reasonRem",

"transMode"

]

}

## D.3 Cancellation

 {

"$schema": "http://json-schema.org/draft-04/schema#",

"type": "object",

"properties": {

 "ewbNo": {

 "type": "number",

 "description": "EwayBill Number"

 },

 "cancelRsnCode": {

 "type": "number",

 "description": "Reason for cancellation"

 },

 "cancelRmrk": {

 "type": "string",

 "description": "Remarks"

 }

},

"required": [

 "ewbNo",

 "cancelRsnCode"

]

}

## D.4 Consolidated ewaybill

=======================

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "fromPlace": {

 "type": "string",

 "maxLength": 50,

 "description": "From Place"

 },

 "fromState": {

 "type": "number",

 "description": "From State"

 },

 "vehicleNo": {

 "type": "string",

 "minLength": 7,

 "maxLength": 15,

 "description": "Vehicle Number"

 },

 "transMode": {

 "type": "string",

 "enum": [

 "1",

 "2",

 "3",

 "4"

 ],

 "description": "Transport Mode (Road-1,Rail-2,Air-3,Ship-4)"

 },

 "transDocNo": {

 "type": "string",

 "maxLength": 15,

 "description": "Transport Document Number "

 },

 "transDocDate": {

 "type": "string",

 "pattern": "[0-3][0-9]/[0-1][0-9]/[2][0][1-2][0-9]",

 "description": "Transport Document Date "

 },

 "tripSheetEwbBills": {

 "type": "array",

 "items": [

 {

 "type": "object",

 "properties": {

 "ewbNo": {

 "type": "number",

 "description": "Ewaybill Number"

 }

 },

 "required": [

 "ewbNo"

 ]

 }

 ]

 }

 },

 "required": [

 "fromPlace",

 "fromState",

 "transMode",

 "tripSheetEwbBills"

 ]

}

## D.5 Reject

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "ewbNo": {

 "type": "number",

 "description":"EwayBill Number"

 }

 },

 "required": [

 "ewbNo"

 ]

}

## D.6 Update Transporter

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "ewbNo": {

 "type": "number",

 "description":"EwayBill Number"

 }

 },

 "transporterId": {

 "type": "string",

 "pattern": "[0-9]{2}[0-9|A-Z]{13}",

 "description": "15 Digit Transporter GSTIN/TRANSIN"

 }

 "required": [

 "ewbNo",

 "transporterId"

 ]

}

## D.7 Extend Validity

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "ewbNo": {

 "type": "number",

 "description":"Ewaybill Number"

 },

 "vehicleNo": {

 "type": "string",

 "minLength": 7,

 "maxLength": 15,

 "description":"Vehicle Number"

 },

 "fromPlace": {

 "type": "string",

 "maxLength": 50,

 "description":"From Place"

 },

 "fromState": {

 "type": "integer",

 "maximum": 99,

 "description":"From State"

 },

 "remainingDistance": {

 "type": "number",

 "description": "Remaining Distance"

 },

 "transDocNo": {

 "type": "string",

 "maxLength": 15,

 "description":"Transport Document Number"

 },

 "transDocDate": {

 "type": "string",

 "pattern": "[0-3][0-9]/[0-1][0-9]/[2][0][1-2][0-9]",

 "description":"Transport Document Date"

 },

 "transMode": {

 "type": "string",

 "description":"Transport Mode"

 },

 "extnRsnCode": {

 "type": "number",

 "description":"Extension Reason Code"

 },

 "extnRemarks": {

 "type": "string",

 "description":"Extension Remarks"

 }

 },"required":[

 "fromPlace",

 "fromState",

 "remainingDistance",

 "TransMode",

 "ewbNo",

 "extnRsnCode",

 "extnRemarks"

]

}

## D.8 Regenerate Consolidated E Way Bill

{

 "$schema": "http://json-schema.org/draft-04/schema#",

 "type": "object",

 "properties": {

 "tripSheetNo": {

 "type": "number",

 "description":"TripSheetNo Number"

 },

 "vehicleNo": {

 "type": "string",

 "minLength": 7,

 "maxLength": 15,

 “description":"Vehicle Number"

 },

 "fromPlace": {

 "type": "string",

 "maxLength": 50,

 "description":"From Place"

 },

 "fromState": {

 "type": "integer",

 "maximum": 99,

 "description":"From State"

 },

 "reasonCode": {

 "type": "string",

 "maxLength": 1,

 "minLength": 1,

 "description":"Reason Code"

 },

 "reasonRem": {

 "type": "string",

 "maxLength": 50,

 "description":"Remarks"

 },

 "transDocNo": {

 "type": "string",

 "maxLength": 15,

 "description":"Transport Document Number"

 },

 "transDocDate": {

 "type": "string",

 "pattern": "[0-3][0-9]/[0-1][0-9]/[2][0][1-2][0-9]",

 "description":"Transport Document Date"

 },

 "transMode": {

 "type": "string",

 "description":"Transport Mode"

 }

 },"required":[

 "fromPlace",

 "fromState",

 "reasonCode",

 "reasonRem",

 "transMode",

 "tripSheetNo"

]

}