

GST System Project: Accounting Authorities Interface Document

Goods and Services Tax Network

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Revision History

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					<p>optional in files mentioned in point 1.</p> <ol style="list-style-type: none"> 3. Added structure of tempid 4. state_cd is added in all file types except Exception file. 5. Date & time added in sample schema Exception file 6. Note added in section 4.1 7. Description updated in Appendix 6
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1. Introduction

1.1 Purpose of this Document

This document describes the details of the format of the various data that will be shared with the Accounting Authorities for payments effected through GST Portal. This document lays down our understanding of the system requirements for integration with Accounting Authorities captured on the basis of the GST Payments Business Process report.

1.2 Scope of this Document

This document covers the requirement of sharing the challan, payment, settlement and reconciliation details with the electronic Pay and Account Offices or e-Treasuries of states and O/o of Principal CCA (Accounting Authorities) as outlined in the Report of Joint Committee on Business Processes for GST on GST Payment by the Empowered Committee of State Finance Ministers.

It includes API description detailing payloads to be exchanged. The details of various APIs for are mentioned at Section 3 and 4 of this document.

This document also includes following content as additional embedded documents:

- The attribute level description of each API request and response payload is included as zip file in Appendix 4. This includes the JSON schema and sample JSON payload for respective APIs. While going through this document, the zip file should be extracted to a folder in reader's desktop and referred for payload information.
- Each attributes are defined as part of json schemas and attached in Appendix 4.
- Various Technical and Functional error codes are mentioned in Appendix 1 & 2

Note: This document does not cover fund settlement related APIs, these will be incorporated in the next version when processes are finalized. A brief note on "Proposed Refund Disbursement Process" is available in Appendix 13.

1.3 Intended Audience

This document is intended for use by the Accounting Authorities and their technical IT teams who are required to integrate with GST Portal. It will enable them to understand the aspects of Integration with their Accounting IT System

1.4 Status

The current status of the API Specification document is depicted in below table.

Module	API Spec	Attributes	Schema	Sample	Error Codes
Authentication	Yes	Yes	Yes	Yes	Yes
CPIN	Yes	Yes	Yes	Yes	Yes

Module	API Spec	Attributes	Schema	Sample	Error Codes
EODCPIN	Yes	Yes	Yes	Yes	Yes
CIN	Yes	Yes	Yes	Yes	Yes
EODCIN	Yes	Yes	Yes	Yes	Yes
EXCP	Yes	Yes	Yes	Yes	Yes
RECON	Yes	Yes	Yes	Yes	Yes
NRECON	Yes	Yes	Yes	Yes	Yes

2. API Specification

2.1 API Overview

This section describes standards and formats which will be used to define API exposed by GST systems. Content in this section should act as guidelines in implementing and publishing API in GST system and consuming API by accounting authorities.

GST APIs will be implemented as RESTful Web services.

2.2 API Format

GSTN APIs will be published as stateless REST web service over HTTPS.

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

API URI	https://domain-name/access-group/version/mod-name				
HTTP Method	GET	To fetch data from GST			
	PUT	To update changes to GST			
	POST	To submit data to GST			
	DELETE	Not allowed			
Content Type	application/json, text/plain, application/x-gzip etc. specific to API and depending on type of data exchanged				
URL Description					
https	All API will be published through HTTPS channel only. SSL will be offloaded at Load balancer and HTTP request will reach API Gateway HTTP protocol will be used in non-production environments				
domain-name	Domain name of API gateway				
version	Version of the API published by GSTN. Version no. will be prefixed by “v” in lowercase and is always mandatory. E.g. v0.1				
access-group	Name related to primary group of API consumer accessing the API.				
	<table border="1"> <thead> <tr> <th>access-group</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>/revenueapi</td> <td>APIs accessible to Accounting Authorities</td> </tr> </tbody> </table>		access-group	Description	/revenueapi
access-group	Description				
/revenueapi	APIs accessible to Accounting Authorities				
mod-name	Module name will be in lower case and will be a noun. E.g. “application” to fetch, submit or update registration related data /revenueapi/v0.1/payment (Method: POST/PUT/GET)				

Table 1. API Format

2.3 API Versioning

API published by GST System will be versioned to accommodate for future change. Version number will be in “X.Y” format, where “X” is major version number and “Y” is minor version number.

Below table depicts guideline of version number usage:

Version	Definition
0.x	Draft version not published to production
1.0	First major version published to production
1.x	Minor change in API which does not break client code using previous version. In such case, previous version can be kept active.
2.0	Major change in API which can break client code using previous version. In such case, previous version should be expired.

Table 2. API Versioning

2.4 Request Header

REST uses HTTP standard and hence metadata for a transaction can be embedded in HTTP headers. HTTP header should be limited to 8kB per field, and 100 fields per message.

The following are the list of attribute that will be passed in the HTTP Header to invoke API post authentication.

Attribute	Description	Usage
clientid	This is the client identifier issued by GSTN to register with API Gateway. This is also called API Key and API usage is monitored at API key level.	GST system will use these credentials to verify access to API. These will be provided at the time of onboarding.
client-secret	This is the client password used to register client with API Gateway. GSTN can be requested to change this password or GSTN can change password to prevent access.	
username	User name will be issued by GSTN. One unique user name per entity will be issued.	GST system will use these credentials to verify access of user to requested data. This will be provided at the time of onboarding.
state-cd	State code of GST State. 99 for Principal CCA.	
auth-token	auth-token will be returned by Authentication API after user credential is verified	Access token to be used to access all APIs

Table 3. API Request Header for API Access

2.5 API Request Payload

Below section defines possible types of request payload. Applicability of the request payload will depend on individual use case.

2.5.1 REQ1: Request with GET Method

HTTP Method	GET
URL Parameter	?action={Action key specific to the request}¶m1={value1}

This is applicable to all API with GET HTTP method.

2.5.2 REQ2: Request Payload with POST / PUT method

HTTP Method	POST or PUT
Content-Type	application/json

```
{
  "action" : "Action key specific to the request",
  "data" : "Request is encrypted with sek",
  "hmac" : "HMAC-SHA256 of Base64 data using sek(shared during authentication) as HMAC Key"
}
```

2.6 API Response Payload

Below section defines format of response payload. Response JSON “data” part will contain the actual response payload, which will be an encrypted string of Base64 encoded JSON. Format of response payload is as follows.

Content-Type	application/json
---------------------	------------------

2.6.1 RES1: Response Payload

```
{
  "status_cd": "Response status code(0 – for Failure, 1 – for Success)",
  "data" : "AES 256 (AES/ECB/PKCS5Padding) encrypted string of Base64 of Response payload JSON",
  "rek" : "AES 256 Secure key, encrypted by sek key (shared during authentication)",
  "hmac" : "HMAC-SHA256 of Base64 data using AES key (rek) as HMAC Key"
}
```

Sample data:

```
{
"url"      : "https://domain-name/revenueapi-doc/ Vx.x/{unique key}",
"file_num" : "Requested file number",
"cnt"      : "Count of records in the file",
"hash"     : "SHA256 hash of the file to be downloaded using above url. This is to be used to check if file is
downloaded without any tamper"
}
```

API client needs to initiate document download within the 60 second time line as the unique URL will be valid for 60 seconds only. In case API client does not able to initiate download in 60 second, they can again call corresponding get api with same file number.

2.6.2 RES3: Error Payload

```
{
"status_cd": "0",
error      : {
    "error_cd" : " error code",
    "message"  : " customized error message"
}
}
```

2.6.3 Response HTTP Status Code

Find below list of response HTTP status code to be returned by GST API:

HTTP Status Code	Status code description
200	Successful response. To be used when request is processed successfully or system returns Ack. No.
202	Request accepted. To be used when request is accepted but system might process request offline and hence will return a token.
400	Bad Request. When system detects issue in the input data (request payload) submitting.
401	Unauthorized. When system detects access to resource which is not authorized by role based access control and access to data (GSTIN).
403	Forbidden. If Auth token expires or invalid.
404	Not Found. If requested entity is not found or if requested API is

HTTP Status Code	Status code description
	not found.
405	Method not found. If requested HTTP Method is not available
408	Request time out. If request takes more than 15 seconds to process (configurable time), system can throw this error.
412	Precondition failed. If mandatory header information missing
415	Unsupported media type. For file upload, if incorrect mime type is used. For other request, if any content-type is used which is not supported by GST API System
500	Exception. If GST system fails to process request due to exceptions in the system.
503	Service unavailable. If certain service is down for maintenance or overloading.

Table 4. API Response Status Code

3. Authentication API

3.1 Overview

Authenticating the Accounting Authorities Client application:

To access the API's, Client application should first authenticate using the credentials shared along with appKey which is encrypted by GST system public key. Once authentication is successful then GST system will provide the session-encryption-key (sek) along with the auth token. Same sek to be used to encrypt/decrypt request and response of all subsequent APIs calls. auth_token will be configured to expire after 120 minutes. On expiry, same authentication API needs to be invoked to get new sek and auth token issued.

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

Request End Point

URL	https://api-domain-name/revenueapi/vX.x/authenticate/
Content-Type	application/json
Method	POST

Request Header

Parameter Name	Description	Field Specification	Sample Value
clientid	This is the client identifier issued by GSTN to register with API Gateway. This is also called API Key and API usage is monitored at API key level.	Mandatory	I7xxf9d8151153954559b5d071bbd139f610
client-secret	This is the client password used to register client with API Gateway. GSTN can be requested to change this password or GSTN can change password to prevent access	Mandatory	3c7a20b8fd79422da20f495134d8eeb0
state-cd	State code of GST State.	Mandatory	99 (e.g. for CCA)
txn	Unique Transaction ID associated with the request	Mandatory	LAPN24235325555
ip-usr	Public IP Address of Client system		137.232.3.35

Request Payload

Parameter Name	Description	Field Specification	Sample Value
action	Type of authentication request	Mandatory	AUTHTOKEN
app_key	256 bit random unique AES 256 symmetric key. app_key will be encrypted using Public key of GST system.	Mandatory	Refer in payload below
username	User name of Accounting Authorities registered with GST system. E.g. eTS0718	Mandatory	Refer in payload below
password	Password provided to the Accounting	Mandatory	Refer in payload

	Authorities at the time of on-boarding. Password will be encrypted using app_key		below
--	--	--	-------

Sample payload is depicted in below table.

```
{
  "action": "AUTHOKEN",
  "app_key": "48Kw7zR3L9nsbBJI3BJBmg8K0cx/XoGzR6uJHcBCuEPUIBDPLochguhJk1DTvvHYQqQwaU0yhOqfZHgalD9sGMikaEBmY7Y1YcjP5drvwmmcqQmCLK3D1FE18ditvlqV4DWou5feLM07QwWTj/i8mDwc5YgWz0cYnr6r7wnd2nlbmMxdHOYbKjOP6SxOdD2Gb6GZDI5+RFkkfGSPKwtvXR9NfZQaLaTIY1w8O0X0NI56C9oqjqT5+FgdpTnLYc3rodHJuEFVgqfeTpWSk3QfAcnQg9P1N9AzcX2OI+AXbLLhcLLbSpfveelhaK02uEdUDYgGHfztr//9RPFqOzg==",
  "username": "eTs0718",
  "password": "BmgX0cZuroBbOHk7KT4Wzw=="
}
```

Response Payload

Parameter Name	Description	Field Specification	Sample Value
status_cd	Status of Authentication request 1 – If credentials are valid 0 – If credentials are not valid	Alphabets Mandatory	1
auth_token	Authorization token is a universally unique identifier (UUID).	Alphabets Mandatory	eac6b3fc-8070-4201-88b0-31e6d5295824
Sek	It is a 256 bit random secure key generated using AES 256 algorithm.appKey will be used as key to encrypt the Encryption key using AES 256 (AES/ECB/PKCS5Padding) algorithm		

Sample payload is depicted in below table.

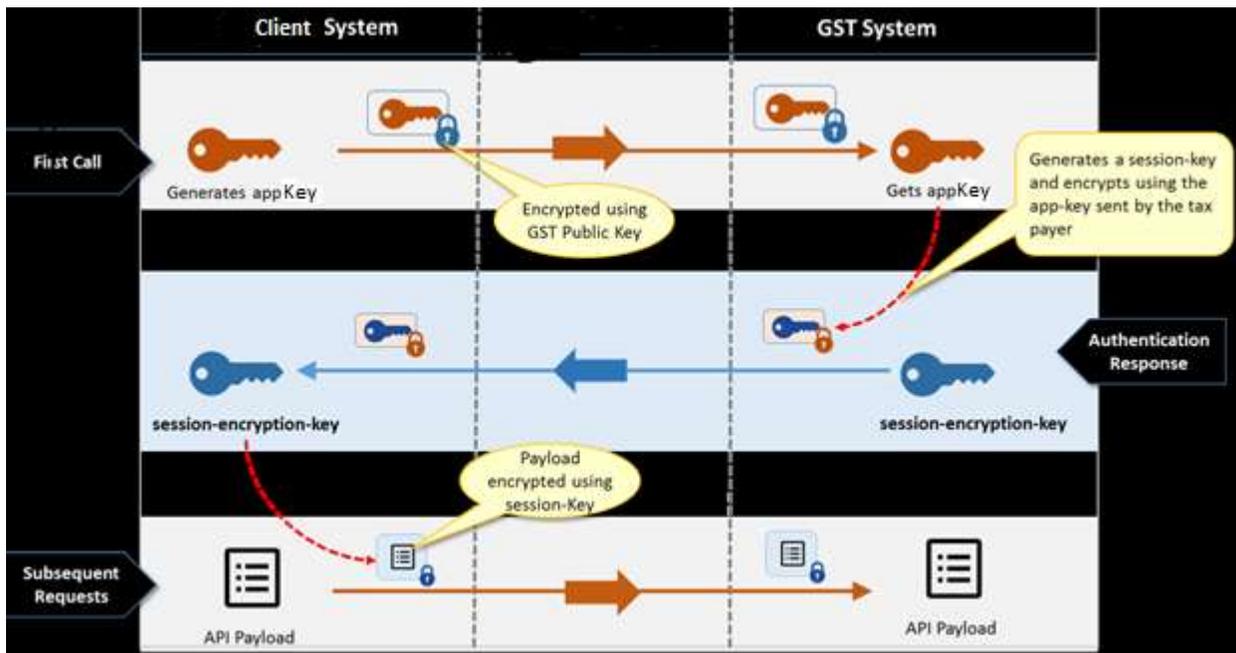
```
{
  "status_cd": "1",
  "auth_token": "eac6b3fc-8070-4201-88b0-31e6d5295824",
  "sek": " dq9JEp7nRnYmk8K/y8Shu1S66L+a31I1xJMo1QuoTMi08sIrCJc5CuUFy+1oZsNL "
}
```

Establishing Encryption Key for subsequent Requests

All payload submitted to subsequent calls to GST APIs must be encrypted using a key called the session-encryption-key or sek which was shared during the authentication call. Establishing the sek is a two-step process

- A. First, the accounting authorities system generates a temporary key called the appKey. The appKey should be exchanged in encrypted form using the GST system public key (Shared during onboarding) to ensure that no intermediary is able to decrypt it.
- B. Second, the GST system generates a unique session-key (sek). The sek is communicated back to the accounting authorities system in encrypted form. The session-key is encrypted using the appKey.

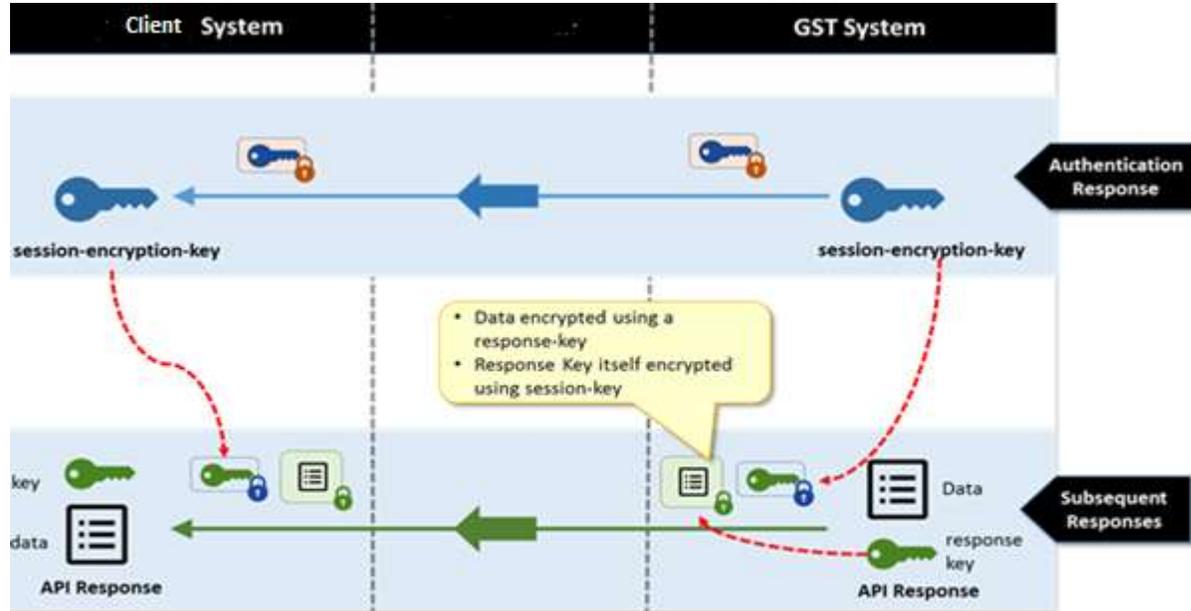
The following figure illustrates the design for establishing the sek.



Establishing Encryption Key for subsequent Response:

All responses from the GST system will also be encrypted using symmetric key called the response-encryption-key (rek). The return values will include not only the encrypted data – but also the key for decryption. The key for decryption (response-encryption-key or rek) will be encrypted using the sek established during the initial authentication.

The following figure illustrates the design for encrypting the responses from the GST System



4. Accounting Authorities APIs

4.1 Overview

As per payment process, successful payment transactions, challan details, reconciliation results and settlement file details to be shared with Accounting Authorities.

For achieving above mentioned requirement, GST system will expose below mentioned API's.

Note:

EOD CPIN and EOD CIN files should follow the below date/time logic:

- 1) Transactions done between (T-1)8:01pm till (T) 8:00pm will be incorporated in the EOD CPIN/CIN file generated on T. T being the current date/ System Date and the transactions done between (T)8:01pm till (T+1) 8:00pm will be included in the EOD file of (T+1) date.**

For e.g. the file date from 30/05/2017 8:01 pm to 31/05/2017 8:00pm should be 31/05/2017 and from 31/05/2017 post 8:01 pm till 01/06/2017 8:00pm will be 01/06/2017.

CPIN and CIN Files

- 1) If the GST System/batches are down for X days and banks has successfully reported the CINs for all past X days then once the system is up on (X+1)th day, all the past transaction details will be reported in (X+1)th day file and in that file the payment date of past transactions will be their actual payment date (i.e. past date). **NO PAST DATED FILES WILL BE GENERATED for real time CPIN and CIN FILES****

EOD CPIN and EOD CIN Files

- 1) If the GST System/batches are down for X days and banks has successfully reported the CINs for all past X days then once the system is up on (X+1)th day, all the past transaction details will be reported in (X+1) th day file and in that file the payment date of past transactions will be their actual payment date (i.e. past date). **PAST DATED FILES WILL BE GENERATED for EODCPIN and EODCIN FILES****

Reconciliation and Non- Reconciliation Files:

- 1) The GST system is not able to run reconciliation for any no. days (due to GST system failure or data not received from RBI or discrepancy in received files from RBI) then once we get the data and GST system is up, the past dated recon and non-recon files should be created with past date and not with current date file. **All past date recon and non-recon files should be generated separately for their respective dates.****
- 2) Any discrepancies in Account Summary file and Credit Notification file, **The GST System will not do reconciliation with RBI.** In this scenario the GST System will communicate the discrepancy details to RBI System and CCA/ AA through emails.**

S.NO	File Type	Description	Frequency	Time to Pull(onwards)	To whom Data will be shared
1	CPIN	Challan File	Every 5 min	Anytime	AA
2	EODCPIN	Challan File	Once in 24 hrs	<10:00 PM> T Evening	AA
3	CIN	Payment File	Every 5 min	Anytime	AA / TA
4	EODCIN	EOD Payment File	Once in 24 hrs	<11:00 AM> T+1 Morning	AA/ TA
5	EXCP	Exception File	Once in 24 hrs	<11:00 AM> T+1 Morning	AA
6	RECON	Reconciliation File	Once in 24 hrs	<2:00 AM> T+2 Morning	AA / RBI
7	NRECON	Non Reconciliation File	Once in 24 hrs	<2:00 AM> T+2 Morning	AA / RBI

4.2 Get File Count

This interface is invoked to get the Challan(CPIN), Payment(CIN), reconciliation and settlement file count generated on a particular day for Accounting Authorities, so that they can use this information to get the corresponding files. GST Backend system returns the count of the Payment, Challan, Reconciliation and settlement Files generated.

In the case of Pr/CCA the state code passed will be '99'. GST system will return the file count which is the sum of the file counts across all the states.

API Endpoint

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

URI	https://domain-name/revenueapi/vX.x/payment
Content-Type	application/JSON
Method	GET
URL Parameters (action={})	FILECNT
URL Parameters (others)	state_cd={},date={},file_type={} for example File Type : CPIN and date format is dd-mm-yyyy
Encrypted	Yes(Request and Response will be encrypted)

Request Payload

All the request parameters with action attribute for this API shall be sent with URL as a GET request as captured in the Section 2.5.1. For brief explanation of Request parameters, schema details, sample payload, please refer ZIP file attached in Appendix 4.

Note: Please refer Appendix 7 for the list of File Types

Response Payload

Response from GST system for this API will be in the format as captured in the section **2.6.1**.

Error response (in case of error) will be in the format as captured in section **2.6.2**.

For brief explanation of Response parameters, schema details, sample payload, please refer ZIP file attached in Appendix section.

4.3 Get File Details

This interface is invoked to get the Payment/Challan/Settlement/ Reconciliations file. This API will provide dynamic URL of file which can be used to download the file from GST system.

In the case of Pr/CCA the state code passed will be '99.

API Endpoint

The format for request is depicted in following table:

URI	https://domain-name/revenueapi/vX.x/payment
Content-Type	application/JSON
Method	GET
URL Parameters (action={}&)	FILEDTLS
URL Parameters (others)	state_cd={},date={},file_num={},file_type={CPIN} for example File Type : CPIN and date format is dd-mm-yyyy
Encrypted	Yes(Request and Response will be encrypted)

Request Payload

All the request parameters with action attribute for this API shall be sent with URL as a GET request as captured in the Section 2.5.1. For brief explanation of Request parameters, schema details, sample payload, please refer ZIP file attached in Appendix section 4.

Note: Please refer Appendix 7 for the list of File Types.

Response Payload

Response from GST system for this API will be in the format as captured in the section 2.6.1

Error response (in case of error) will be in the format as captured in section 2.6.2

CCA / SAA Systems:

Once the response is received from GST SYstem following steps need to be followed....

- 1) Un-compress the tar.gz file to get the JSON file having "data" attribute
- 2) Decrypt the data attribute using decrypted REK to get another JSON having data and sign attribute
- 3) Verify the sign. Sign is done on the base64 data which is received in step 2.
- 4) Base 64 decode the data to get JSON object of the respective file

Note: File name convention is: <file_type>_<date>_fileNum.json Refer file types in Appendix 7

Eg. CPIN_14012017_01.json

Appendix 1. Technical Error Codes

The following table describes various error details that may be part of the error response message which can be received from GST system whenever a processing error occurred due to some technical issues.

ErrorCode	Title	Description
TEC4001	Technical Error	The GSTN System is not able access
TEC4002	Invalid Data Format	The given Data is not valide format
TEC4003	Invalid AppKey	The given app key is not valide

Appendix 2. Functional Error Codes

ErrorCode	Title	Description
PMT9001	Malformed Request	Request for verification did not include all the mandatory fields.
PMT9013	Invalid File Number	The file number passed was invalid
PMT9047	Invalid State Code	The state code passed was invalid
PMT9020	Invalid Date	The date passed as part of request is Invalid
PMT9057	Invalid Search Date	The given date is not in 7 day's
PMT9056	Invalid File Type	Wrong file Type
AUTH4032	Invalid USER	User is not valid, This response will come from auth frame work.exampleapp_key will be empty
AUTH4035	Invalid Request Action	The Request Action is not valid
AUTH4037	API Access Denied	Not able to access the API
AUTH4040	Malformed Request Detected	Request for verification did not include all the mandatory fields
AUTH4041	Invalid State Code	State Code is invalid
SWEB_9002	Invalid User ID or Password. Please try again.	The user id or password entered as wrong this response will come from service web
SWEB_9033	Your Password has expired. Please change your password.	User will get Password has expired warring meessages
SWEB_9035	Account is Locked	The account is locked

Appendix 3. Codes to identify beneficiary State

The following table list the values that will be passed in the beneficiary State field in the API request to identify State/UT Government. The values used is complaint to the Meta Data Standards specified by DeitY.

State Code	State Name		State Code	State Name
01	Jammu and Kashmir		19	West Bengal
02	Himachal Pradesh		20	Jharkhand
03	Punjab		21	Orissa
04	Chandigarh		22	Chhattisgarh
05	Uttrakhand		23	Madhya Pradesh
06	Haryana		24	Gujarat
07	Delhi		25	Daman & Diu
08	Rajasthan		26	Dadra & Nagar Haveli
09	Uttar Pradesh		27	Maharashtra
10	Bihar		37	Andhra Pradesh
11	Sikkim		29	Karnataka
12	Arunachal Pradesh		30	Goa
13	Nagaland		31	Lakshadweep
14	Manipur		32	Kerala
15	Mizoram		33	Tamil Nadu
16	Tripura		34	Puducherry Commune
17	Meghalaya		35	Andaman & Nicobar Islands
18	Assam		36	Telangana
99	CCA			

Appendix 4. Request and Response Payload

The request & response attributes, JSON schema and sample json for request & response of all G2G APIs are attached below.



Accounting
Authorities API-Attrib

Note: Please refer below the GSTN_Payment_InterfaceV4.06 for different types of data payload which is part of CIN file.



GSTN_Payment_Inte
rface V4.06.docx

Appendix 5. Glossary

This section should contain the list of terms not already introduced in the referred documents.

Sl. No	Term / Acronym	Description
1.	GSTIN	Goods and Services Tax Identification Number(15 character string)
2.	TMPID	Temporary Id (15 character string) if gstin not available like in case of suo moto The structure is: 2 digit State Code + Year (YY)+8 digits serial+"T"+"M"+"P"
3.	API	Application Programming Interface
4.	JSON	Javascript Object Notation
5.	CPIN	Common Portal Identification Number(14-digit yymm followed by 10-digit unique number (first two digits will state code))
6.	CIN	Challan Identification Number -18-character (unique 4-digit Bank code + 14-digit CPIN generated by GST IT System)

Appendix 6. Non Reconciliation Record Types

S.No	Record Type	Description
1	NRECONGST	Non - Reconciled Transactions Reported to GST System Only
2	NRECONCIN	<p>Non - Reconciled Transactions Reported to RBI with incorrect CIN details</p> <p>Scenario: The bank has collected money for CPIN and submitted CIN details to RBI via luggage file. This CPIN was never generated on GST Portal. So in this case CPIN is missing.</p>
3	NRECONHEADS	<p>Non - Reconciled Transactions Reported to RBI with incorrect Heads</p> <p>Scenario: The bank has reported the amount swapped between major heads even though total of CPIN amount is correct.</p>

Appendix 7. File Types

All the time mentioned in below table are tentative and configurable.

S.No	File Type	Description	Frequency	Time to Pull (onwards)
1	CPIN	Challan File	Every 5 min	Anytime
2	EODCPIN	EOD Challan File	Once in 24 hrs	<10:00 PM> T Evening
3	CIN	Payment File	Every 5 min	Anytime
4	EODCIN	EOD Payment File	Once in 24 hrs	<11:00 AM> T+1 Morning
5	RECON	Reconciliation File	Once in 24 hrs	<11:00 PM> T+1 Evening
6	NRECON	Non Reconciliation File	Once in 24 hrs	<11:00 PM> T+1 Evening
7	SETLMENT	Settlement File Details	Will be updated later	Will be updated later
8	EXCP	Exception File	Once in 24 hrs	<11:00 AM> T+1 Morning
9	RFND	Refund File	Will be updated later post process finalization	Will be updated later post process finalization

Appendix 8. Payment Modes

S.No	Term/Acronym	Description
1	EPY	E Payment
2	OTC	Over the Counter
3	NER	NEFT/RTGS

Appendix 9. Instrument Types

S.No	Term/Acronym	Description
1	IB	Internet Banking
2	CC	Credit Card
3	DC	Debit card
4	CASH	CASH
5	CHEQUE	CHEQUE
6	DD	Demand Draft

Appendix 10. Bank Codes for Challan Identification Number (CIN)

The Challan Identification Number (CIN) will be a unique 18-digit number containing 14-digit CPIN generated by GST IT system for a particular challan and unique 4-digit Bank code. The following tables lists the 4-digit code to be used by the Authorized Banks for generation of CIN.

S.No	Name of the Bank	Bank Code	Remarks
1	ALLAHABAD BANK	ALLA	
2	ANDHRA BANK	ANDB	
3	BANK OF BARODA	BARB	
4	DENA BANK	BKDN	
5	BANK OF INDIA	BKID	
6	CENTRAL BANK OF INDIA	CBIN	
7	CANARA BANK	CNRB	
8	CORPORATION BANK	CORP	
9	HDFC BANK	HDFC	
10	IDBI BANK	IBKL	
11	ICICI BANK LTD	ICIC	
12	INDIAN BANK	IDIB	
13	INDIAN OVERSEAS BANK	IOBA	
14	BANK OF MAHARASHTRA	MAHB	
15	ORIENTAL BANK OF COMMERCE	ORBC	
16	J & K Bank	JAKA	
17	PUNJAB AND SIND BANK	PSIB	
18	PUNJAB NATIONAL BANK	PUNB	
19	RBI,PAD	RBIS	
20	STATE BANK OF INDIA	SBIN	
21	SYNDICATE BANK	SYNB	
22	UNION BANK OF INDIA	UBIN	
23	UCO BANK	UCBA	
24	UNITED BANK OF INDIA	UTBI	
25	AXIS BANK	UTIB	
26	VIJAYA BANK	VIJB	

Appendix 11. E-Scroll Number Format

S. No	Element	Size	Format
1.	Notification Type	4	CNV5 – Credit Notification
2.	UDCH Code	4	UDCH Code assigned by RBI for Govt
3.	Reserved Field	12	LPAD with Zero
4.	Scroll Date	8	YYYYMMDD
5.	Scroll For	1	R for e-Receipts
6.	Session ID	2	Session Identifier
7.	Sequence Number	4	Running Serial – LPAD with Zero

Refer RBI for further details of E-Scroll Number format.

Appendix 12. UTR Format

NEFT: There is no specified structure from RBI. It is only specified as a unique number, maximum up to 16 characters (SWIFT X Character Set).

SWIFT Character Set (X Character Set) is as follows:

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y
Z 0 1 2 3 4 5 6 7 8 9 / - ? : () . , ' + { } CR LF Space

Although part of the character set, the curly brackets are permitted as delimiters and cannot be used within the text of user-to-user messages (Error Code M60).

RTGS: The specified standard structure from RBI is 22 characters length.

The structure of the unique number is “XXXXRCYYYYMMDDnnnnnnnn”, where XXXX is IFSC (first 4 character) of sending participant, R represents RTGS system, C represents channel of the transaction, YYYYMMDD represents year, month and date of the transaction, nnnnnnnn denotes the sequence number.

Refer RBI for further details of UTR format.

Appendix 13. Proposed Refund Disbursement Process



Refund_Disbursement v1.0.docx

Appendix 14. Open Issues

This section should list the open issues which have not be resolved at the time of submission of the document for review.

ID	Item	Responsibility	Status
1.	CGST and SGST Settlement	GSTN	In Progress
2.			
3.			