**Public API Overview**

We had earlier released a framework for Taxpayer APIs, which can be accessed only using Tax payer credentials. But there are few generic APIs, which are public in nature and will be required by various stakeholders like “Search Tax Payer” API. These API will provide various public information, which are available at GST Portal mostly without login. For allowing access to these API, GST System has come up with a public/common API Framework.

As per GST System requirement, we can only allow access to GST System APIs through registered and authenticated users, it is applicable to any type of API. To handle both the requirement (keeping API nature Public and allowing access to authenticated users), we have come up with a “Public/Common API” access framework. This framework has authentication API, which is based on userid and password. These APIs will be only available to registered users (Government Departments, GSPs etc.).

**For Application developers these APIs will be only accessible through GSPs like other Taxpayer APIs but will not require Tax payer Authentication.** Every GSP will provide access to these APIs similar to other Taxpayer APIs.

How to access public APIs:

1. ASPs need to connect to GSPs for getting access to these APIs.
2. Registered User & GSP’s (RUsers) will get userid and password and clientid and client-secret for these API access. GSP can use their existing clientid and secret on sandbox. Userid and Password for Sandbox will be notified separately to them.
3. RUsers will first call authentication API as mentioned in “Public API”->Authentication menu with below payload.

{

"action": "ACCESSTOKEN",

"username": "bouser2",

"password": "kAzgNZ8O1WnnJKKAJSKAasdakw",

"app\_key": " exSQrNDwWm2UwIu8zYZZC+1u8Nrwg2Xg6+JByqBVJ4Pfcb0eoK7BFP8Zv/zQtdS+AOhNWrtSAOo4NhnsxqmXerF5eMxal86UB0tQgnfgEP6ODRz94l4bqJvW7ZcUpA3uexfQE6K3wYh6uNq2VkrDpig3EPPNBqU6untAVkdygjrY8+ssBcVOeJA/nAmI2BQGvuo/F/VwL3rb4xnp0sYG+44oAA7CP5QWwtaGoWOv0lwNwZZG+s4+rHhHSuUfFpyZ1vqubblMKrEuXy4ndlmd4gafW1lcNVEEznr5yhEY1L2N0JVu2wkbBgGZMb6N0xorEzU9FQiX5PK6ZWkoJBQD4A=="

}

1. RUsers will send username and encrypted password with GST System Public Key(It can be downloaded from “How To Start”->Download section of developer portal) along with app\_key.
2. Sample code for encryption is also available under

“How To Start”->Download section of developer portal

1. app\_key is base 64 encoded AES 256 secure key. It generation logic is also available in sample code mentioned above.
2. RUsers application will also set clientid, client-secret in http header.
3. Above payload should be posted on the url provided to RUsers.
4. After successful authentication, one will get below output.

{

"status\_cd": "1",

"auth\_token": "30431124-5cbd-4045-9840-4ebb18d70265",

"sek": "IaxLuJcsqILZuYQX828ITxXlrRUM1ebdEIaqEXnlaK+xK/U7ZuM5xAayg7RB7mWp"

}

1. This “auth\_token” should now be send in all the request header along with clientid, client-secret, username and “auth\_token” will be valid till <6 hours> for now. “sek” will not be used currently but sent for future purposes.
2. RUsers should renew this token before 6 hours by calling the authentication API again to access this API.
3. RUsers application can now call any public API using this token. Sample request for “Search Taxpayer” is as below.

[https://api-domain-name/v0.2/search?action=tp&gstin={}](https://api-domain-name/v0.2/search?action=tp&gstin=%7b%7d)

13.

Response would be as below:

{

“status\_cd”:1;

“data”: {

"ctb": "Proprietorship",

"rgdt": "24/03/2017",

"sts": "Active",

"dty": "Regular",

"ctj": "RANGE-I",

"stj": "Circle-A, Jaipur - Ward-1",

"lgnm": "PALSIN SHIRA",

"cxdt": "",

"gstin": "08AAAAA2915M1ZT",

"nba": [

"Office / Sale Office"

]

},

“hmac”:””,

“rek”: “”

}