

Table of Contents

1. Common headers for calling API's	2
2. v4/dedupe/initiate.....	3
Check Sum Logic	3
Request.....	3
Response	4
3. v4/dedupe/status.....	6
Check Sum Logic	6
Request.....	6
Response	6
4. v4/ocr/kyv/initiate.....	9
Check Sum Logic	9
Request.....	10
Response.....	10
5. v4/ocr/kyv/process	11
Check Sum Logic	11
Request.....	11
Response.....	11
6. v4/customer/onboarding/initiate/nkyc	12
Check Sum Logic	13
Request.....	13
Response.....	13
7. v4/customer/onboarding/verify/nkyc	14
Check Sum Logic	15
Request.....	15
Response.....	15
8. v4/customer/onboarding/initiate/biometric	17
Check Sum Logic	17
Request.....	17
Response.....	18
9. v4/customer/onboarding/verify/biometric.....	19
Check Sum Logic	20
Request.....	20
Response.....	20
10. v4/customer/issuetag.....	22
Check Sum Logic	22
Request.....	22
Response.....	23
11. v4/customer/replacetag	24
Check Sum Logic	24
Request.....	24
Response.....	25

12.	V4/customer/onboarding/reqotp	26
	Check Sum Logic	26
	Request.....	27
	Response.....	27
13.	V4/customer/onboarding/verifyotp.....	28
	Check Sum Logic	28
	Request.....	28
	Response.....	28
14.	v4/replace/dedupe/initiate	29
	Check Sum Logic	30
	Request.....	30
	Response	30
15.	v4/replace/getreplacevehicledetail	31
	Check Sum Logic	31
	Request.....	32
	Response	32
1.	Min KYC Api Call Flow.....	34
2.	Biometric Full KYC Flow.....	35
3.	Steps to Create PID Data	41
4.	ETB New Tag Issuance Journey.....	41
5.	ETB Customer Replace Tag	42
6.	Test Cases	42

Change Log

S. NO	Date	Changes
1.10.1	25/08/2025	To consider isCommercial flag in dedupe/initiate as final. Kindly note the flag sent in issuetag isCommercial flag would not be considered as final, and it would be only as per the flag passed in dedupe/initiate
1.10.2	17/08/2025	Removal of mobile number from replacement api as per version update done in replacement api's in june

1. Common headers for calling API's

channel = API/PORTAL

entityId = 62740 <BC entity Id>

createUser = 62740.admin1

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
Channel	String	M	API/PORTAL
entityId	String	M	Entity Id of user
requestId	String	M	Unique Request Id per API request. Alphanumeric Min 15 Max 20
journeyId	String	C	Unique Request Id in API request. Alphanumeric Min 15 Max 20 Non-Mandatory for dedupe/initiate, /vehicle/update/initiate Mandatory for all other API
Authorization	String	M	
createUser	String	M	Login user id

2. v4/dedupe/initiate

URL: /customer_onboarding_api/v4/dedupe/initiate

dedupe API Request field specifications-

Check Sum Logic

Checksum String = Secure token+ mobileNo+requestId+ channel +entityId+createUser+vrn+ engineNo(vrn)+chassisNo+ engineNo(chassis)+doctype
chkSm = SHA256(CheckSum String)

Request

```
{
  "mobileNo": "9233132321",
  "isCommercial" : "Y/N",
  "journeyType": "ISSUETAG",
```



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```
"vrnDetails": {  
  "vrn": "UP13GG2323",  
  "rcFront": "base64",  
  "rcBack": "base64",  
  "engineNo": "34332", //last 5 digits  
},  
"chassisDetails": {  
  "chassisNo": "3434WE34EWE43WER",  
  "engineNo": "34332", //last 5 digits  
  "docType": "Invoice/Insurance",  
  "docFront": "base64",  
  "docBack": "base64"  
},  
"chkSm": "TYDFHGFHGHGJHGHGHGHGKJKJHJKHJHJ65765765678767567567"  
}
```

Response

```
{  
  "requestId": "23213434324",  
  "journeyId": "JO2718552336501",  
  "resMsg": "Success",  
  "resCode": "700"  
}
```

Parameter	Data type	Mandatory (M) / Optional (O) / Conditional ©	Description
-----------	-----------	--	-------------

requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoll system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
journeyType	String	O	ISSUETAG Blank value will be considered as ISSUETAG journey.
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
mobileNo	String	M	Mobile no of customer. Fixed 10 digit
vrnDetails/chassisDetails	Object	M	Either 1 value is mandatory. Pass other as null
vrnDetails.vrn	String	C	Vehicle Registration Number (Min 5 Max 12)
vrnDetails.rcFront	String	C	base64 image (png,jpg) - 2MB. If Vrn is passed field is mandatory
vrnDetails.engineNo	String	C	last 5 digit on engine no. Mandatory in-case vrnDetails is not null
vrnDetails.rcBack	String	C	base64 image (png,jpg) - 2MB If Vrn is passed field is mandatory. IF RC is single page. Pass same image in both front and back
chassisDetails.chassisNo	String	C	chassis No (Min 17 Max 50)
chassisDetails.engineNo	String	C	last 5 digit on engine no
chassisDetails.docType	String	C	Invoice/Insurance

chassisDetails.docFront	String	C	base64 image (png,jpg) - 2MB
chassisDetails.docBack	String	C	base64 image (png,jpg) - 2MB
isCommercial	String	M	Y / N *Please note the iscommercial flag here would be considered as final, irrespective of what is passed in issuetag's api

3. v4/dedupe/status

URL: /customer_onboarding_api/v4/dedupe/status

Check Sum Logic

Checksum String = Secure token+requestId+ journeyId + channel +entityId+createUser
chkSm = SHA256(CheckSum String)

Request

```
{
  "chkSm": " TYDFHGFHGHGJHGHGHGHGKJKJHJKHJHJ65765765678767567567"
}
```

Response

```
{
  "resCode": "700",
  "resMsg" ; "Success",
  "requestId": "321323232323",
  "journeyId": "J2321432133",
  "existingCustomer": [
```

```
{  
  "custId": "34034259",  
  "name": "Mangesh Bagde",  
  "kycFlag": "KYC"  
}  
],  
"vehicle": {  
  "vehicleRegNo": "DL6CQ3351",  
  "chassisNo": "MA3EWDE1S00C00733",  
  "engineNo": "7906755",  
  "make": "MARUTI WAGON R GREEN LXI",  
  "model": "Wagon R",  
  "vehicleColor": "GLISTENINGGREY",  
  "vehicleRegAvlbl": "Y",  
  "tvc": "4",  
  "cch": [  
    "VC4"  
  ],  
  "commercial": "N",  
  "regDate": "07-03-2017",  
  "isVahanVerified": "Y",  
  "isOcrVerified": "Y",  
  "isIssuanceAllowed": "Y",  
  "isExistingTag": "Y",  
  "existingTagId": "SADSAHDGHAJD76767678",  
  "vehicleDescriptor": "PETROL",  
  "stateName": "MAHARASHTRA",
```

```

"stateCode":"MH",

"nationalPermit":"Y",

"permitExpiryDate":"01-01-2050",

"tagDescriptor":"NEW_TAG",

"registeredVehicle":"Y"

}

}

```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoil system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
existingCustomer.custId	String	O	Existing customer Id of Etoil system if exists
existingCustomer.name	String	O	Existing Customer Name

existingCustomer.kycFlag	String	O	Existing Customer Type
vehicle.vehicleRegNo	String	O	Vehicle Reg No
vehicle.chassisNo	String	O	Chassis No
vehicle.engineNo	String	O	Engine No
vehicle.make	String	O	Make of Vehicle
vehicle.model	String	O	Model of Vehicle
vehicle.vehicleColor	String	O	Colour of Vehicle
vehicle.vehicleRegAvlbl	String	O	if vehicle reg no available or not for chassis onboarding
vehicle.tvc	String	O	Tag Vehicle Class
vehicle.cch[]	String	O	Tag Vehicle CCH
vehicle.commercial	String	O	if vehicle is commercial
vehicle.regDate	String	O	Vehicle Registration Date
vehicle.isVahanVerified	String	M	is Vehicle Vahan verified (Y/N)
vehicle.isOcrVerified	String	M	is Document copy is OCR verified (Y/N)
vehicle.isIssuanceAllowed	String	M	is Tag Issuance Allowed (Y/N)

4. v4/ocr/kyv/initiate

Desc: Pass 1 image in a request at a time. All 3 types of docType is mandatory for KYV process.

URL: /customer_onboarding_api/v4/ocr/kyv/initiate

Check Sum Logic

Checksum String = Secure token+requestId+ journeyId + channel +entityId+createUser

chkSm = SHA256(CheckSum String)

Request

```
{
  "document": [
    {
      "docType": "vrnFront",
      "front": "base64"
    },
    {
      "docType": "axleImage",
      "front": "base64"
    },
    {
      "docType": "fastag",
      "front": "base64"
    }
  ],
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"
}
```

Response

```
{
  "resCode": "700",
  "resMsg": "Success",
  "requestId": "ABCD1234AN60063",
  "journeyId": "JO2718552336501",
}
```

Parameter	DataType	Mandatory (M) / Optional (O) / Conditional ©	Description
-----------	----------	--	-------------

requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by E toll system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
document[].docType	String	M	vrnFront/axleImage/fastag
document[].front	String	M	base64 image (png,jpg) - 3MB

5. v4/ocr/kyv/process

Desc: Call this API to process KYV request. Once all 3 images are uploaded.

URL: /customer_onboarding_api/v4/ocr/kyv/process

Check Sum Logic

Checksum String = Secure token+requestId+ journeyId + channel +entityId+createUser

chkSm = SHA256(CheckSum String)

Request

```
{
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"
}
```

Response

```
{
  "resCode": "700",
}
```

```

"resMsg": "Success",
"requestId": "ABCD1234AN60063",
"journeyId": "JO2718552336501",
}

```

Parameter	Data type	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoll system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
document[].docType	String	M	vrnFront/axleImage/fastag
document[].front	String	M	base64 image (png,jpg) - 3MB
document[].back	String	O	base64 image (png,jpg) - 3MB

6. v4/customer/onboarding/initiate/nkyc

Desc : will be used for NKYC onboarding

URL: /customer_onboarding_api/v4/customer/onboarding/initiate/nkyc

Check Sum Logic

Checksum String = Secure token+ requestId+journeyId+ channel
+entityId+createUser+emailId+aadharNo+panNo+dob+address1+address2+street+city+p
incode+state

chkSm = SHA256(CheckSum String)

Request

```
{
  "emailId": "a@b.com",
  "aadharNo": "",
  "panNo": "",
  "dob": "dd/mm/yyyy",
  "communicationAddress": {
    "address1": "",
    "address2": "",
    "street": "",
    "city": "",
    "pincode": "123123",
    "state": ""
  },
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"
}
```

Response

```
{
  "requestId": "",
  "journeyId": "",
  "resCode": "700",
  "resMsg": "Success"
}
```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20

journeyId	String	M	Journey Id generated by Etoil system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
emailId	String	M	128 length
aadharNo	String	M	encrypted aadhar
panNo	String	no	encrypted pan
dob	String	M	encrypted dob
communicationAddress.address1	String	O	256 length alphanumeric
communicationAddress.address2	String	O	256 length alphanumeric
communicationAddress.street	String	O	256 length alphanumeric
communicationAddress.city	String	O	128 length alphanumeric
communicationAddress.pincode	String	O	6 length numeric
communicationAddress.state	String	O	128 length alphanumeric

7. v4/customer/onboarding/verify/nkyc

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Desc : Customer will be onboarded as NKYC. If Customer has to be onboarded as Manual next API needs to be called.

URL: /customer_onboarding_api/v4/customer/onboarding/verify/nkyc

Check Sum Logic

Checksum String = Secure token+ requestId+journeyId+ channel
+entityId+createUser+otp
chkSm = SHA256(CheckSum String)

Request

```
{  
  "otp": "123232",  
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"  
}
```

Response

```
{  
  "requestId": "",  
  "journeyId": "",  
  "resCode": "700",  
  "resMsg": "Success",  
  "customer": {  
    "name": "",  
    "dob": "",  
    "mobileNo": "",  
    "custId": "",  
    "permanentAddress": {  
      "address1": "",  
      "address2": "",  
      "street": "",  
      "city": "",  
      "pincode": "123123",  
      "state": ""  
    }  
  },  
  "vehicle" {  
    "vrn": "",  
    "chassisNo": "",  
    "isCommercial": "Y/N"  
  }  
}
```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etol system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
otp	String	M	otp received in sms.
customer.name	String	M	response value
customer.dob	String	M	response value
customer.mobileNo	String	M	response value
customer.custId	String	M	response value
customer.permanentAddress.address1	String	M	response value
customer.permanentAddress.address2	String	M	response value
customer.permanentAddress.street	String	M	response value
customer.permanentAddress.city	String	M	response value
customer.permanentAddress.pincode	String	M	response value

customer.permanentAddress.state	String	M	response value
customer.vehicle.vrn	String	M	response value
customer.vehicle.chassisNo	String	M	response value
customer.vehicle.isCommercial	String	M	response value

8. v4/customer/onboarding/initiate/biometric

Desc : In biometric mode customer will be onboarded as KYC. And will generate the OTP for mobile no verification.

URL: /customer_onboarding_api/v4/customer/onboarding/initiate/biometric

Check Sum Logic

Checksum String = Secure token+ requestId+journeyId+ channel
+entityId+createUser+emailId+panNo+aadharNo+dob+annualIncome+employmentStatus
+address1+address2+street+city+pincode+state

chkSm = SHA256(CheckSum String)

Request

```
{
  "emailId": "a@b.com",
  "aadharNo": "",
  "panNo": "",
  "dob": "dd/mm/yyyy",
  "annualIncome": "5-7",
  "employmentStatus": "private",
  "pidDataString": "",
  "communicationAddress": {
    "address1": "",
```

```

    "address2": "",
    "street": "",
    "city": "",
    "pincode": "123123",
    "state": ""
  },
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"
}

```

Response

```

{
  "requestId": "",
  "journeyId": "",
  "resCode": "700",
  "resMsg": "Success"
}

```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etol system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code

			received from etoll system.
chkSm	String	M	SHA256 of checksum string
emailId	String	M	128 length
aadharNo	String	M	encrypted aadhar
panNo	String	no	encrypted pan
dob	String	M	encrypted dob
communicationAddress.address1	String	O	256 length alphanumeric
communicationAddress.address2	String	O	256 length alphanumeric
communicationAddress.street	String	O	256 length alphanumeric
communicationAddress.city	String	O	128 length alphanumeric
communicationAddress.pincode	String	O	6 length numeric
communicationAddress.state	String	O	128 length alphanumeric
annualIncome	String	O	
employmentStatus	String	O	
document[].docType	String	M	
pidDataString	String	M	string from biometric device

9. v4/customer/onboarding/verify/biometric

Desc : In biometric mode customer otp will be verified.

URL: /customer_onboarding_api/v4/customer/onboarding/verify/biometric

Check Sum Logic

Checksum String = Secure token+requestId+journeyId+ channel
+entityId+createUser+otp

chkSm = SHA256(CheckSum String)

Request

```
{  
  "otp": "123232",  
  "chkSm": "0eaf0e77cf6d168f6956a7fb2aab287ea78ad2b1fe32281dfd1fe90597011469"  
}
```

Response

```
{  
  "requestId": "",  
  "journeyId": "",  
  "resCode": "700",  
  "resMsg": "Success",  
  "customer": {  
    "name": "",  
    "dob": "",  
    "mobileNo": "",  
    "custId": "",  
    "permanentAddress": {  
      "address1": "",  
      "address2": "",  
      "street": "",  
      "city": "",  
      "pincode": "123123",  
      "state": ""  
    }  
  },  
  "vehicle" {  
    "vrm": "",  
    "chassisNo": "",  
    "isCommercial": "Y/N"  
  }  
}
```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoll system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
otp	String	M	otp received in sms.
customer.name	String	M	response value
customer.dob	String	M	response value
customer.mobileNo	String	M	response value
customer.custId	String	M	response value
customer.permanentAddress.address1	String	M	response value
customer.permanentAddress.address2	String	M	response value
customer.permanentAddress.street	String	M	response value
customer.permanentAddress.city	String	M	response value
customer.permanentAddress.pincode	String	M	response value

customer.permanentAddress.state	String	M	response value
customer.vehicle.vrn	String	M	response value
customer.vehicle.chassisNo	String	M	response value
customer.vehicle.isCommercial	String	M	response value

10. v4/customer/issuetag

URL: /customer_onboarding_api/v4/customer/issuetag

Check Sum Logic

Checksum String = secure token + requestId + journeyId + channel + entityId + createUser + otp + otpId + paymentMode + product + tvc + cch + tagId + barcode + vrnMobileNo + initialAmount + commVeh + exempted + exemptedCatg + chassisNo + gvw + axle + engineNo + state vehicleDescriptor + nationalPermit + permitExpiryDate
chkSm = SHA256(CheckSum String)

Request

```
{
  "otp": "123456",
  "otpId": "232131321",
  "paymentMode": "CASH", //Default blank value will be considered as CASH
  "issueTag": {
    "product": "8800000000018",
    "tvc": "7",
    "cch": "VC7",
    "tagId": "34161FA820327FA4054BBFE0",
    "barcode": "606162-002-0679423",
    "vrnMobileNo": "7738129132",
    "initialAmount": "1500.0",
    "commVeh": "Y",
    "exempted": "N",
    "exemptedCatg": "",
    "chassisNo": "",
    "make": "",
    "model": "",
    "gvw": "",
    "axle": ""
  }
}
```



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```
{
  "engineNo": "",
  "state": "Maharashtra",
  "vehicleDescriptor": "",
  "nationalPermit": "T/F",
  "permitExpiryDate": "dd-MM-yyyy"
},
"chkSm": "c4b800d4d6b2d2819276bdefce0f14c4107398f0f1ee63490512eedae6362a36"
}
```

Response

```
{
  "requestId": "ABCD1234AN60067",
  "journeyId": "JO2718552336501",
  "respCode": "700",
  "respMessage": "Success",
  "vehicle": {
    "vrn": "DL6CQ3351",
    "tagId": "34161FA820327FA4054BBFE0",
    "respCode": "700",
    "respMessage": "Success"
  }
  "custId": "34034259",
}
```

Parameter	Type	Mandatory (M) Optional (O) Conditional (C)	Value
otp	String	C	Provide value is generated otp for ETBNEWTAG
otpld	String	C	Provide value is generated otp for ETBNEWTAG
issueTag	Object	M	
Product	String	M	Product to be selected
tagId	String	M	Tag ID of vehicle
tvc	String	M	TVC of vehicle
cch	String	M	CCH of vehicle
Barcode	String	M	Barcode or Tag Id either 1 is needed
tagId	String	M	Barcode or Tag Id either 1 is needed
vrnMobileNo	String	O	Mobile no to be linked with vehicle
initialAmount	String	M	Amount paid during tag issuance
Security	String	M	Security Deposit
commVeh	String	M	Is Vehicle commercial or not
*Please note the iscommercial flag here would be			

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			considered as what is passed in dedupeinitiate, irrespective of what is passed in this api
exemptedCatg	String	M	Exempted vehicle category
exempted	String	M	Y/N
chassisNo	String	M	Chassis no of vehicle
make	String	O	Make of vehicle
model	String	O	Model of vehicle
gvw	String	O	Gvw of vehicle
axle	String	O	Axle of vehicle
engineNo	String	M	Use value from dedupe status response else manual entry
state	String	M	Use value from dedupe status response else manual entry
vehicleDescriptor	String	M	Use value from dedupe status response else manual entry
nationalPermit	String	M	Use value from dedupe status response else manual entry
permitExpiryDate	String	M	Use value from dedupe status response else manual entry
resMsg	String	M	Same as above
resCd	String	M	Same as above
Vehicle.vrn	String	M	VRN or Chassis on which tag is issued
custId	String	M	Customer Id

11. v4/customer/replacetag

URL: /customer_onboarding_api/v4/customer/replacetag

Check Sum Logic

Checksum String = secure token + requestId + journeyId + source + entityId + createUser + product + tvc + cch + oldTagId + tagId + barcode + vrnMobileNo + initialAmount + commVeh + exempted + exemptedCatg + chassisNo + gvwt + axle + engineNo + state vehicleDescriptor + nationalPermit + permitExpiryDate + replacementReason + chargesBearBy

chkSm = SHA256(CheckSum String)

BD1XZD8BMFRT5DYFOE7F ABCD1234AN60067 JO2718552336501 61665 34034259 1 34161FA820327FA4054BBFE0 880000000018 7 DL6CQ3351 VC7 1500.0 606162-002-0679423 7738129132

Request

```
{
  "replaceTag":
  {
    "product": "8800000000018",
```



```

"tvc": "7",
"cch": "VC7",
"oldTagId": "34161FA820327FA405HGHJGJH",
>tagId": "34161FA820327FA4054BBFE0",
"barcode": "606162-002-0679423",
"vrnMobileNo": "7738129132",
"initialAmount": "1500.0",
"commVeh": "Y",
"exempted": "N",
"exemptedCatg": "",
"chassisNo": "",
"make": "",
"model": "",
"gvw": "",
"axle": "",
"engineNo": "",
"state": "Maharashtra",
"vehicleDescriptor": "",
"nationalPermit": "T/F",
"permitExpiryDate": "dd-MM-yyyy",
"replacementReason": "Damaged",
"chargesBearBy": "Customer/Bank/Agent",
},
"chkSm": "c4b800d4d6b2d2819276bdefce0f14c4107398f0f1ee63490512eedae6362a36"
}

```

Response

```

{
  "requestId": "ABCD1234AN60067",
  "journeyId": "JO2718552336501",
  "resCode": "700",
  "resMsg": "Success",
  "vehicle":
  {
    "vrn": "DL6CQ3351",
    "tagId": "34161FA820327FA4054BBFE0",
    "respCode": "700",
    "respMessage": "Success"
  }
  "custId": "34034259"
}

```

Parameter	Type	Mandatory (M) Optional (O) Conditional (C)	Value
Otp	String	C	Provide value is generated otp for REPLACE

API Specification Document

otpId	String	C	Provide value is generated otp for REPLACE
replaceTag	Object	M	
Product	String	M	Product to be selected
tagId	String	M	Tag ID of vehicle
oldTagId	String	M	Old Tag ID of vehicle
tvc	String	M	TVC of vehicle
cch	String	M	CCH of vehicle
Barcode	String	M	Barcode
vrnMobileNo	String	O	Mobile no to be linked with vehicle
initialAmount	String	M	Amount paid during tag issuance
commVeh	String	M	Is Vehicle commercial or not
exemptedCatg	String	M	Exempted vehicle category
exempted	String	M	Y/N
replacementReason	String	M	Value is Damaged
chassisNo	String	M	Chassis no of vehicle
make	String	O	Make of vehicle
model	String	O	Model of vehicle
gvw	String	O	Gvw of vehicle
axle	String	O	Axle of vehicle
engineNo	String	M	Use value from dedupe status reponse else manual entry
state	String	M	Use value from dedupe status reponse else manual entry
vehicleDescriptor	String	M	Use value from dedupe status reponse else manual entry
nationalPermit	String	M	Use value from dedupe status reponse else manual entry
permitExpiryDate	String	M	Use value from dedupe status reponse else manual entry
chargesBearBy	String	M	Customer/Bank/Agent
resMsg	String	M	Same as above
resCd	String	M	Same as above
Vehicle.vrn	String	M	VRN or Chassis on which tag is issued
Vehicle.tagId	String	M	New tag is
Vehicle.respCode	String	M	Response code of tag replacement
Vehicle.respMessage	String	M	Response code of tag replacement
custId	String	M	Customer Id
resCode	String	M	Response code of api request
resMsg	String	M	Response msg of api request

12. V4/customer/onboarding/reqotp

Desc: To generate OTP for New Tag issuance for ETB Customer, Replace Tag and Opting Max and Trip services call this API.

URL: /customer_onboarding_api/v4/customer/onboarding/reqotp

Check Sum Logic

Checksum String = secure token + requestId + channel +entityId+createUser
+custId+vrn+action+maxService+dailyTrip+yearlyTrip
chkSm = SHA256(CheckSum String)

Request

```
{
  "custId": "34034259",
  "vrn": "",
  "action": "REPLACETAG / ETBNEWTAG / OPTSERVICE",
  "optService": {
    "maxService": "Y",
    "dailyTrip": "Y",
    "yearlyTrip": "N"
  },
  "chkSm":
  "ce8c1939f829758ba961f3fa194a8c4fd7b0dc270b73af80dd1a750d00110ebc"
}
```

Parameter	Datatype	Mandatory (M) Optional (O) Conditional (C)	Value
custId	String	C	CustID for ETB customer. Max 12 numeric
vrn	String	C	Vehicle Registration No / Chassis No
Action	String	M	REPLACETAG – For replacetag ETBNEWTAG – For ETB Customer New Tag Issuance OPTSERVICE – For opting max and trip services
maxService	String	C	Y/N
dailyTrip	String	C	Y/N
yearlyTrip	String	C	Y/N

Response

```
{
  "requestId": "ABCD1234AN60062",
  "journeyId": "JO2718552336501",
  "otpId": "94477",
  "resCode": "700",
  "resMsg": "Success"
}
```

Parameter	Type	Mandatory (M) Optional (O) Conditional (C)	Value
-----------	------	--	-------

Requestid	String	M	Same as above
journeyId	String	M	Same as above
otpId	String	M	Max 15 Numeric
resMsg	String	M	Same as above
resCd	String	M	Same as above

13. V4/customer/onboarding/verifyotp

Desc: For OPTSERVICE / REPLACETAG call this API.
For NEWTAGETB Call issueTag

URL: /customer_onboarding_api/v4/customer/onboarding/verifyotp

Check Sum Logic

Checksum String = secureToken+requestId+ channel +entityId+createUser +otp+otpld
chkSm = SHA256(CheckSum String)

Request

```
{
  "otp": "123456",
  "otpId": "232131321",
  "chkSm":
  "ce8c1939f829758ba961f3fa194a8c4fd7b0dc270b73af80dd1a750d00110ebc"
}
```

Response

```
{
  "requestId": "ABCD1234AN60062",
  "journeyId": "JO2718552336501",
  "resCode": "700",
  "resMsg": "Success"
}
```

Parameter	Type	Mandatory (M) Optional (O) Conditional (C)	Value
otp	String	M	OTP received on mobile
otpId	String	M	Max 15 Numeric

resMsg	String	M	Same as above
resCd	String	M	Same as above
Requestid	String	M	Same as above
journeyId	String	M	Same as above

14. v4/replace/dedupe/initiate

URL: /customer_onboarding_api/v4/replace/dedupe/initiate

dedupe API Request field specifications-

Check Sum Logic

Checksum String = Secure token+requestId+channel+entityId+createUser+vrn+engineNo(vrn)+chassisNo+ engineNo(chassis)
chkSm = SHA256(CheckSum String)

Request

```
{
  "journeyType": "REPLACETAG",
  "vrnDetails": {
    "vrn": "UP13GG2323",
    "engineNo": "34332"    //last 5 digits
  },
  "chassisDetails": {
    "chassisNo": "3434WE34EWE43WER",
    "engineNo": "34332"    //last 5 digits
  },
  "chkSm": "TYDFHGFHGHGJHGHGHGHGKJKJHJKHJHJ65765765678767567567"
}
```

Response

```
{
  "requestId": "23213434324",
```

```

"journeyId": "JO2718552336501",
"resMsg": "Success",
"resCode": "700",
"customer": {
  "custId": "34034259",
  "name": "Mangesh Bagde",
  "kycFlag": "KYC",
  "mobileNo" : "98xxxxxxx89"
}
}

```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoll system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
journeyType	String	M	REPLACETAG.
resCd	String	M	It will indicate response code received from etoll system.

chkSm	String	M	SHA256 of checksum string
mobileNo	String	M	Mobile no of customer. Fixed 10 digit
vrnDetails.vrn	String	C	Vehicle Registration Number (Min 5 Max 12)
vrnDetails. engineNo	String	C	last 5 digit on engine no. Mandatory in-case vrnDetails is not null
chassisDetails.chassis No	String	C	chassis No (Min 17 Max 50)
chassisDetails.engineNo	String	C	last 5 digit on engine no

15. v4/replace/getreplacevehicledetail

URL: /customer_onboarding_api/v4/replace/getreplacevehicledetail

Check Sum Logic

Checksum String = secureToken+requestId+journeyId+ channel
+entityId+createUser
chkSm = SHA256(CheckSum String)

Request

```
{
  "chkSm":
    "ce8c1939f829758ba961f3fa194a8c4fd7b0dc270b73af80dd1a750d00110ebc"
}
```

Response

```
{
  "resCode": "700",
  "resMsg" ; "Success",
  "requestId": "321323232323",
  "journeyId": "J2321432133",
  "vehicle": {
```

```
"vehicleRegNo": "DL6CQ3351",  
"chassisNo": "MA3EWDE1S00C00733",  
"engineNo": "7906755",  
"make": "MARUTI WAGON R GREEN LXI",  
"model": "Wagon R",  
"vehicleColor": "GLISTENINGGREY",  
"vehicleRegAvlbl": "Y",  
"tvc": "4",  
"cch": [  
    "VC4"  
],  
"commercial": "N",  
"regDate": "07-03-2017",  
"isVahanVerified": "Y",  
"isOcrVerified": "Y",  
"isIssuanceAllowed": "Y",  
"isExistingTag": "Y",  
"existingTagId": "SADSAHDGHAJD76767678",  
"vehicleDescriptor": "PETROL",  
"stateName": "MAHARASHTRA",  
"stateCode": "MH",  
"nationalPermit": "Y",  
"permitExpiryDate": "01-01-2050",  
"tagDescriptor": "NEW_TAG",  
"registeredVehicle": "Y",  
"gvw": "36000".
```



```

    "axle": "2",
    "productid": "100001234",
    "productName": "Min 99 NKYC Bus/Truck",
    "securityAmount": "0",
    "balance": "99",
    "idfcStatus": "Activated"
  }
}

```

Parameter	Datatype	Mandatory (M) / Optional (O) / Conditional ©	Description
requestId	String	M	Unique Request Id in API request. Alphanumeric Min 15 Max 20
journeyId	String	M	Journey Id generated by Etoil system. alphanumeric having max 20 char
resMsg	String	M	It will indicate the response message received from etoll system. Numeric Max 7 digit
resCd	String	M	It will indicate response code received from etoll system.
chkSm	String	M	SHA256 of checksum string
vehicle.vehicleRegNo	String	O	Vehicle Reg No
vehicle.chassisNo	String	O	Chassis No
vehicle.engineNo	String	O	Engine No
vehicle.make	String	O	Make of Vehicle
vehicle.model	String	O	Model of Vehicle

vehicle.vehicleColor	String	O	Colour of Vehicle
vehicle.vehicleRegAvlbl	String	O	if vehicle reg no available or not for chassis onboarding
vehicle.tvc	String	O	Tag Vehicle Class
vehicle.cch[]	String	O	Tag Vehicle CCH
vehicle.commercial	String	O	if vehicle is commercial
vehicle.regDate	String	O	Vehicle Registration Date
vehicle.gvw	String	O	GVW of vehicle
vehicle.isVahanVerified	String	M	is Vehicle Vahan verified (Y/N)
vehicle.isOcrVerified	String	M	is Document copy is OCR verified (Y/N)
vehicle.isIssuanceAllowed	String	M	is Tag Issuance Allowed (Y/N)
vehicle.gvw	String	M	Gvw as per existing vehicle details
vehicle.axle	String	O	axle as per existing vehicle details
vehicle.productId	String	M	Existing product id
vehicle.productName	String	M	Product Name
vehicle.securityAmount	String	M	Security Amount
vehicle.balance	String	M	Tag Balance
vehicle.idfcStatus	String	M	Tag Status in IDFC Bank

1. Min KYC Api Call Flow

Journey 1 (Customer Onboard and Issue Tag)

1. Dedupe/Initiate
2. Dedupe/Status
3. Initiate /NKYC
4. Verify /NKYC

5. Req Otp (OPTSERVICES Action) – Optional
6. Verify Otp (call if called API 5)
7. Issue Tag
8. KYV Initiate (1 image at a time)
9. KYV Process (Call when all 3 images are uploaded)

2. Biometric Full KYC Flow

Journey 2 (Customer Onboard and Issue Tag)

1. Dedupe/Initiate
2. Dedupe/Status
3. Initiate / biometric
4. Verify / biometric
5. Req Otp (OPTSERVICES Action) – Optional
6. Verify Otp (call if called API 5)
7. Issue Tag
8. KYV Initiate (1 image at a time)
9. KYV Process (Call when all 3 images are uploaded)

Steps to create PID Data

1. User need to activate and integrate the app with device which they have before using for biometric.
2. Below sample XML block to connect with secugen device please change according device to be used to get PID data from UIDAI in UAT or Production environments or connect with your devices support team for the devices integration.

```
"<PidOptions ver=\"1.0\">" +
  "<Opts env=\"P\" fCount=\"1\" fType=\"2\" iCount=\"0\" iType=\"\" pCount=\"0\" "
pType=\"\" format=\"0\" pidVer=\"2.0\" timeout=\"20000\"
wadh=\"TF/lfPuh1n4ZY1xizYpqiklBm+gv65r51MFNek4uwNw=\" posh=\"UNKNOWN\" />" +
  "<Demo></Demo>" +
  "<CustOpts>" +
  "<Param name=\"\" value=\"\" />" +
  "</CustOpts>" +
  "</PidOptions>"
```

Changed env value according to your requirement.

1. For UAT env=pp
2. For Production env=p
3. Scan the fingerprint by device and receive the data from UIDAI by there own code.



API Specification Document

4. once the PID data received in app ,Need to validate below field as mentioned in NOTE accordingly.

Note : Below fields value must either be numeric or null

1. qScore
2. fType
3. errCode
4. nmPoints
5. fCount
6. ci

5. Convert the PID date in base 64 format before passing PID data string in Biometric initiate API

"pidDataString": Below are the sample format :

```
<PidData><Resp errCode=\\0\\\" errInfo=\\\"SUCCESS\\\" nmPoints=\\\"27\\\" fType = \\\"2\\\"  
fCount = \\\"1\\\" qScore=\\\"60\\\" /><DeviceInfo dpld=\\\"SECUGEN.SGI\\\" rdsId=\\\"SGI.AND.003\\\"  
rdsVer=\\\"1.0.3\\\" dc=\\\"f842cdbc-5c24-11ee-9966-98f2b3e683e0\\\" mi=\\\"HU20AP\\\"  
mc=\\\"MIIDoTCCAomgAwIBAgIECy7liTANBgkqhkiG9w0BAQUFADCvZmMCQGCSqGSib3DQ  
EJARYXa3VuZGFqQHNIY3VnZW5pbmRpdjY5SjB2b2xDbzANBgNVBACTBk11bWJhaTEsMCoGA1UE  
AxMjRFRmgUOVDVUdFTBJTkRJQSBUklWQVRFIExJTUIURUQgMDUxJjAkBgNVBAoTHVNfNQ1V  
HRU4gSU5ESUEgUFJJVkFURSBSMSU1JVEVEMQswCQYDVQQLEwJJVDEUMBIGA1UECBMLTWFW  
oYXJhc2h0cmExCzAJBgNVBAYTAklOMB4XDTIOMDQxMjA5MTAzMloXDTIOMDUxMjA5MTAz  
MlowZTEZMBcGA1UEAxMQc2dpcmRzc3Vic2NyaWJlcjENMAsgA1UECxMEQVVUSDEMMAoG  
A1UEChMDQVVBMQ4wDAYDVQQHEwVJbmRpdYTEOMAwwGA1UECBMFU3RhduGUXCzAJBgNV  
BAYTAklOMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAvRFP6hKCGuwSUM66/Cb/  
hDn/knyfiOpd8fgp20jzWRT+9wCzvaTs5ZmE4LvMys8B3/7v36PYErq+90B128lvxA/uzDexBvD4  
D8lqqyfoE/15tbeH9SeZ1c8ta3ipeYM2NfLL11OX58qMajsSIVPiQIL8g+mm2tdelYdwkJbkCanDf  
sO/yKKkdMhpAD3jLYNjSekNitWSIPv5gZxNHU1kWQXpTN9SKZOdBfmLzz93+aISEBYbsO/X3j6z  
0gUPUW4axdiLazo79B/Jxn0Z8mhdzLN8whm2YYibPjCexsPgEh8jIEAqkHsQ54xsK1gJxVAvsD1T  
hAa2B9VtwFbsXMVENe2/OzTp8v/b8DgbF+r/G1TzyhHNFMtcDuqTL/FAnusZ2SDCqqzsR+UP2p  
EcKAOlwXv3dlF435FLei2a9HpbnRii16VUDswy9pr/N9Fy727R883RpdaMoGOGkMDTwe3p8Xt  
4ljqENx0VaaVwi7JaBmPlrCmG\\\" ><additional_info><Param name=\\\"version\\\"  
value=\\\"v1.0.5(0279)\\\" /><Param name=\\\"camera\\\" value=\\\"0\\\" /><Param name=\\\"srno\\\"  
value=\\\"H58230905507\\\" /><Param name=\\\"pass\\\" value=\\\"N\\\"  
>/></additional_info></DeviceInfo><Skey ci=\\\"20250929\\\"  
>AHTtpJr1tEaW69pbAe7q4pJ545FUvVKWrldcKr958ba3TgfFKBzs/P6dFXokKGrKq8ijsrWa8Ck  
bwP+vkWfJ7TLx8/4h6djlfUWiOPFINona+7ZwJwPRhbN4Y6t3+QtAdAzAx2GXpyzsTk8ALW3Dn  
Lg2gZjCR803tK7eJcjWK/IO60x6XNktutJLLnk2X9dJNNiRbikpmRnPO6OGkINPdD4VHOBUutDU  
P9AeYQVCos5NybuJkKsuJsViOwpEdPHUGPDja0ggq6VV7O6vORomu74TWaOKKJxeWN6N7o/2E  
WbG/cvuYyyinfEjVEgmqlZKU7xu2DVLvOLdr6CSNoT5ZNA==</Skey><Hmac>7FXudXW7xThBp  
W4gKx6wO9PhHocRybMUmninGz3sf20/DRzwONHh35irSmptJowC</Hmac><Data  
type=\\\"X\\\">MjAyNC0wNC0zMFEQxODo1Mjo0MT7WYmmhAx+a0qPvTFwv63kpof2DIgmr7Sn
```

tUomQ4c+Xv6XXZTQ6lrfINUWCvLUgx+xWAgZqsLPlanVboHbA5d3FUMr+7gl05+mJzo5QFwJY
DJ1RV+GpMMPi9u4yqlWD8Hj1V+8NbuC51k7xpg9Z8KuqUpbAfKYg0+fRmlyOVclQhpsqP4Wr
obnXdeonYyRglB+RP4n5yY/oU1ctv/ZACRFyROX9NSlrGxMcyRLGfZkb4cV3cheEJtSgK7GFIYHC
CoXhJl/ZHbfyG+RZn9eMsphjBTJuQ2ofxMz3ZAYaAlIXQ4GINLG6RCCqY0cqrpl8SxawzHpdAlgx
pl5QNj7+gKZiOhF0Uarua+McXolo2W3cGy6Ta+5SbjkXl8GD9d/SCi6FSfD0NleKtGhvCLbFiliHo
wsXC/Ur+92oGSHyxBc5IVvyOhr1h60K+sCw/q3TFDFZQn9D65kZLNPBEK/hpG07xxuD9YYdfxA
DalsSLKUYyB4VxZZ8uH0H7kyQzTWHNVL/Zo0YzrZApPWC8/7lj0B19yboueriwz2MGI4BSqsc9
+v2JMSepFP7U5Kn2Mvtj2GmZHqxN8j8feZ7EUy/ANT5o2tPxYFgKE707fw41yPQGNb+ImrWiti
dwGJEfs1iPqIW/XEiuLSXE+p0YjyE7nX5F/ax0N1e9XUfbZmYAniDXOevXc7YBpzRKXgu7rhh0T0
akVr51qSRNRdgX9ogYl8cmLK7SuWWNpUPz36auWgCHRDDUyhZN852w+C1PKhyEzlxugSmSg
96p+1WwjAXJPZRPnuduXRK60pf1sLKE5EpG4Bb3tvLUOla7zKgpx1viAacT/wyele/vMpCXS9Uj5
uGJSNslVHpdfEpl1Jri7WZSgPYaHsyewNXdYCNyslAGvNDRCEH2ivsoPSpe+Vk7JengOlf+ZlxeLk
FmYl3JKTciQcpquFb2/wS75HHaPOASzEJ161tIKUHAoGK67ja3X6Jd+wpdNjZt+kFnN0qtubG2q
NHO0pPUZEkgbFes8XDS//GH1CjLMmcdPm/+aFbBDNN4PyeT0iGq/IJ5qzFqbc3+LHZ7CqJ/1nR
A0Tuw49+/i+/IUHtM2O4nqFRr6NFaO5EpHtc1zeZQScuLeyiqwhkHF2D4HvzaSxuy8g5l8zuMi
Obi+ilt8iJcsH0j/o+Lhoi7LLNsO8xMldBHKCKuQE4gwl+IVPq4VkJagoJE1KvNc6Dn2+QpagQiOM
oVd4wQCLFljhMyzRv15L58b+9QGvtNdAC/s6smJfpm83rB5NRukfJlz8vwild4bTA8hdEW0FnhC
Snk2wXbnw3kh+4vWVei5HIC4cKAvC4/UJ+yoZ+zQVL/qZZ0ULt/mVMEKI/5GIX4H4dPadJc4Oy
LpRRxbzBQ2QLl/wkV97qU9pBtBdxU65HgPnO8s2xHsSd91K/uKpUsO5YLnHuz/rZDpbZ5yEY2AA
yWGxMCAHP9Rg3LSR/QCuhlgvaoVp7PlzMtYMD1zdVJ24fuyKQf+NOzoCwgekqic79PJTy1Uw
0kuT/+M4UDtQOz6nR/zEHZC2gulaEP9GeNoVbC9c4INOqbu5msFyz7vP2NDZXXRUNhXEJKIFr
QLkkUeyOA85mMCAmf9PmH8oIOSRPYVVES030neMPpbOs2o1D5uOPxrA7vKiTZWIq34M+1Y
yucQnqlfr5cc37vCElyYJ97S2RBqT7rxfW0lh3RkhM7fAB0d/Jt+KKvW+7d798qctdBC3UWyDUI
hgnhUkjvp6oEOTP92+WE/XifEZnpvLTQ+2liskfb/bUpWqKPI7fIHkmiXxGk/4O4xF2wXn+56Akq
sOpec7UQUEs0q91MqZqXCPCdG1CmB67/501BuhhiUB352H0rzDw98r21k+sVpSXIlleU+TvAk
mA/ja92GG6O02/68MsaHChtxaN4qla2veRAHcf5gOVuxisRps66/ikmf9nO88x5djRnMJyelIBC
BhhXMkqOnzpz5gbshf/PyhpYP4rRN00QCFX55WY9VdbWsOhluDQN0dz01lfr7hUUQFgeRPP
hYdYle9EXnbUvhcWSEIG3a+HxNvlwDEFzbtBeCYDmS57mQa53ES7kVDu1i3diD0UIO+tuTZ+oT
GtAyaXadQVzACligkdcqLjQyUcl5NzRCNriMRaxdUj1x0XJqe0go5GVtCwHuD3oNZaRdrJugUfl
02xre2kdHb9GsFP7F2XEFdPVI74FMn5TgF1NV9qQqJ1fhfhEfeLwwfjUIHHnoMxdUNCnxOWL
LDpumQQ7hBiNqi9YiuAWWrsxRBakz6t7B9yE2UMozxgMzZ4zYowakqGP/4WGZ1FAB0DXDls
qrOdR6SxWW39e1e7WTcbekp8P/jS97j++9ldEtKa088gFaVXS7pKzDdcH644p6vRyq60EYb+eA
ZfakctFLkenO7m8PfComAlJcielDAeFdSSkXWc+DNlJu0skwu8U4n+yMV4yTr2b7OC+kn4TmFO
mayidmFbaRLF4AS6W1279jvh0X0jKfMTsk771ZZ+iZJHPRZCOorLS35IKry05llrstruDIdd8vT9jNY
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“Before sending PID data in the request body, ensure that the PID data format matches the provided example exactly, and that no elements such as

'/', " are missing. If anything is missing, you will not receive the correct response.”.

Please find below the PID option for your reference and check send the value in PID option accordingly:

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```

3. ETB New Tag Issuance Journey

Journey 3 (ETB Customer Issue Tag)

1. Dedupe/Initiate
2. Dedupe/Status
3. Req Otp (ETBNEWTAG Action)
4. Issue Tag
5. KYV Initiate (1 image at a time)
6. KYV Process (Call when all 3 images are uploaded)

4. ETB Customer Replace Tag

Journey 4 (ETB Customer Replace Tag)

1. Replace /Dedupe/Initiate
2. Req Otp (REPLACETAG Action)
3. Verify Otp
4. v4/replace/getreplacevehicledetail
5. Replace Tag

5. ETB Customer Vehicle Tag Update

Vehicle Update Journey

1. /vehicle/update/initiate
2. /vehicle/update/process

6. Test Cases

- ETB with Valid VRN and Chassis
- NTB with valid VRN and Chassis

- NTB with invalid VRN
- NTB with Invalid Chassis
- NTB with Invalid RC Image in case of VRN
- NTB with invalid RC Image in case of chassis
- NTB with Invalid Tag/Front/Axle Image in Initiate KYV
- NTB with Valid RC Image in case of VRN
- NTB with Valid RC Image in case of chassis
- NTB with Valid Tag/Front/Axle Image in Initiate KYV