



Annex2: Technical Specifications Beta Version

Technical Solution:

TIP Upfront validation API is a REST API based on JSON. Access to it can be provided to any airline or aggregator specially registered for accessing this service.

TIP API has to be developed and tested by Airline in Sandbox environment. Sandbox contains the same Agency and Airline Membership information as Product and allows Customers to complete all required tests.

Once the test is confirmed in Sandbox as success – Access to production is provided.

PCI-DSS

TIP API includes transmission of the Card number (PAN) as part of request and as a result requires both requestor and the platform to be PCI-DSS certified. IATA solution has PCI-DSS level 1 certification allowing it to process such data. Airline or Aggregator requiring access to this service will be requested to provide PCI-DSS AOC for the system used to execute this API request prior to access to Production is provided

API reference

Call method: **POST**

Request structure and parameters:

Name	Description
body *	<pre>{</pre> <p>Required: agentCode, airlineDesignatorCode, clientID, formOfPayment</p> <p>agentCode: string minLength:7 maxLength:7 <i>The IATA agent code</i></p> <p>airlineDesignatorCode: string minLength:2 maxLength:2 <i>The airline 2 letter code of the ticketing carrier on whose behalf the transaction is issued and validated, or (if applicable) the assigned alphanumeric code of the non-airline participant for the transaction.</i></p> <p>clientID: string minLength:1 maxLength:7 <i>3N Airline Accounting code. A code to identify the airline or a System Provider on whose behalf the transaction is issued and validated, or (if applicable) the assigned alphanumeric code of the non-airline participant for the transaction.</i></p> <p>countryCode: string minLength:2 maxLength:2 <i>The ISO country code of the agent associated with the transaction.</i></p> <p>formOfPayment: [{</p> <p>Required: accountNumber, expiryDate, type</p> <p>accountNumber: string minLength:16 maxLength:19 <i>For credit card this corresponds to the credit card number (PAN).</i></p> <p>amount:</p>

integer minimum:1 maximum:11

The optional Form of Payment amount associated with the transaction. Required in case the Currency is provided. Decimal places are defined by the 4th character of the currency code.

currency:

string minLength:4 maxLength:4

Required if formOfPayment.amount is provided. The currency code followed by a digit to represent the number of decimal places associated with the amount, as defined in ISO 4217. Example – USD2.

expiryDate:

string minLength:4 maxLength:4

The expiry date of a payment card. Format MMY

type:

string

The Form of Payment type consisting of a minimum of two-letter code as defined in IATA DISH. Credit Card - American Express: CCAX, Credit Card - Discover Card: CCDS, Credit Card - Discover Club: CCDC, Credit Card - China UnionPay: CCUP, Credit Card - Master Card: CCCA, Credit Card - UATP: CCTP, Credit Card - VISA: CCVI, Any Credit Card: CC

Enum: `CCCA`, `CCVI`, `CCAX`, `CCDS`, `CCDC`, `CCUP`, `CCTP`, `CC`

}

]

}

Responses

Status 200 – Success:

```
{
  agentCode:string
  airlineDesignatorCode:string
  clientID:string
  confidenceLevel:string
  costRecoveryAmount:integer
  costRecoveryAmountCurrency:string
  costRecoveryPercentage:number (double)
  description: string
  httpStatus:integer (int32)
  status: string
```

TIP-UV001: Enrolled Product found, and Airline has given consent without cost recovery.
TIP-UV002: Enrolled Product found, and Airline has given consent with cost recovery.

Enum: `TIP-UV001`, `TIP-UV002`

```
transactionDate:string
transactionID:string
}
```

Status: 400 - Bad request

```
{
  agentCode:string
  airlineDesignatorCode:string
  clientID:string
  confidenceLevel:string
  costRecoveryAmount:integer
  costRecoveryAmountCurrency:string
```

costRecoveryPercentage:number (double)

description:string

HttpStatus:integer (int32)

status:string

TIP-UV003: Product not Found (Unknown not Enrolled).

TIP-UV004: Potential ATM.

TIP-UV005: Enrolled Product found, and Airline has not given consent.

TIP-UV006: TIP system not available.

TIP-UV007: Parameter is missing.

TIP-UV008: The format of is not correct.

TIP-UV009: The clientID must match the company of the user.

TIP-UV010: The provided airline does not participate in the Billing & Settlement Plan of agent's country.

TIP-UV011: The agent must be an active IATA Accredited with TA in provided country.

Agent ():

TIP-UV012: Provided ticketing airline code does not match the one of the provided clientID.

TIP-UV013: The customer did not subscribe to TIP Upfront Validation service.

TIP-UV014: Provided clientID does not have an active representation for the provided airline.

TIP-UV015: Cannot find matching between county code of agent and BSP country.

Enum: TIP-UV003, TIP-UV004, TIP-UV005, TIP-UV006, TIP-UV007, TIP-UV008, TIP-UV009, TIP-UV010, TIP-UV011, TIP-UV012, TIP-UV013, TIP-UV014, TIP-UV015

transactionDate:string

transactionID:string

}

Status: 401 - Unauthorized

Status: 403 - Forbidden

Status: 404 - Not Found