



Technical Specification Document for Aadhaar Lookup using Web Service

Version 1.0

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Technical Specification Document (TSD)

Document Details

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1. Introduction

NPCI has built Aadhaar Mapper web service for OMC's consumers and Bank user's usage. This is a service to raise query to know the status of customer's Aadhaar number using Aadhaar Mapper database at NPCI. With this feature consumers of OMC's/Banks will be able to query their Aadhaar number over internet. At the back end this integrates with NACH application to fetch the current status. Consumer will be able to know bank name with which Aadhaar number is linked with the last update date.

The purpose of this document is to provide details on Aadhaar Mapper web service.

2. Proposed Solution

The solution uses web service API where in the Service gets requested with Aadhaar No, mobile no, request no, and request Date & Time.

Based on the Request, Response will be provided back to the stake Holder as below.

- i. Bank Name
- ii. Last Update Date
- iii. Processed Date Time
- iv. Mobile Number
- v. Aadhaar Status
- vi. Aadhaar number
- vii. Requested Date Time
- viii. Request No
- ix. Error
- x. Request Received time

3. Approach

The HTTPs request along with the SOAP request containing the Request Number, Aadhaar Number, Request date and time will be sent from Bank platform. The request will reach Exposed API, which in turn queries the Mapper database and the required values, will be Fetched and sent back to the Bank platform. The exposed API will be restricted based on IP/Port.

4. Request and Response format

The Request and the response is as per mentioned below:

Request Message

S.No.	Field Name	Field Type	Max Length	Status	Remarks
1	Aadhaar Number	NUM	12	M	123456789012
2	Mobile Number	NUM	10	O	1234567890
3	Request No	ALPNUM	10	M	ABCD000001(Bank Short Code followed by reference number)
4	Request Date Time	Date &Time Stamp	19	M	16-09-2013 11:50

Response Message

S.No.	Field Name	Field Type	Max Length	Status	Remarks
1	Aadhaar number	NUM	12	M	1234456789012
2	Bank Name	ALPNUM	80	O	ABC BANK
3	Error	ALPNUM	50	O	Required Parameters not provided/invalid
4	Last Update Date	Date stamp Format DD-MM-YYYY	10	O	14-02-2013
5	Mobile Number	NUM	10	O	1234567890
6	Processed Date Time	Date &Time Stamp	19	M	16-09-2013 11:50
7	Request No	ALPNUM	10	M	ABCD000001(Bank Short Code followed by reference number)
8	Request Received time	Date &Time Stamp	19	M	16-09-2013 11:50
9	Requested Date Time	Date &Time Stamp	19	M	16-09-2013 11:50
10	Aadhaar Status	ALPNUM	1	O	I,A,N

** For optional field, expecting xml tag (with blank value) to be present in request and response message format

Aadhaar Status codes

Status Code	Remarks
A	Aadhaar Number is in Status ACTIVE
I	Aadhaar Number is in Status INACTIVE
N	Aadhaar Number is NOT PRESENT in Database

5. Process Flow

In a normal Web service, client will send a HTTPs request to server, and server will send back a HTTPs response to client directly. In our scenario, Bank System will act as a Client and WebSphere Application Server (WAS) of NACH will act as the Server.



Request from Client:

1. As mentioned in above diagram in point 1, Bank system will raise an online web service call to Aadhaar mapper DB in terms of request with Aadhaar No, mobile no, request no, request date & time.
2. At Bank side, the Web Service URL will be called, using which Client will get connected to Server. Below URL will be used for production

<https://nach.npci.org.in/Aadhaar/AadhaarQueryService/AadhaarQueryService.wsdl>

3. Banks to integrate the above URL to forward the request to NACH system.

Response to Client:

1. As mentioned in above diagram in point 2, WAS will internally use the query to get the Required details and send the response from UID Repository with the following details. Request no, Aadhaar no, Mobile no, bank name, Aadhaar status, last updated date, error, Request and processing date time stamp.
2. The XML Response is enclosed as Annexure 1 covering different scenarios for https request.

6. Scenarios

Below are the different scenarios of the Aadhaar Numbers.

S.No.	https request	Response
1	Active Aadhaar number	A
2	Inactive Aadhaar Number	I
3	Aadhaar not found in Database	N
4	Aadhaar Number with Error	Required Parameters not provided/invalid

7. Annexure

Annexure 1

https Request and Response of Valid Aadhaar, Invalid Aadhaar and Aadhaar not found in Database.

Annexure 2

WSDL file is attached.

8. Requirements at Client Side:

1. The HTTPs SOAP request will be for only one Aadhaar number at a time
2. Connectivity details to be provided by Banks.
3. Banks to integrate the WSDL URL at their end.
4. All technical validations with regards to Aadhaar number will be done by the Banks system.
5. Banks to generate unique request number for each web call.
6. Below IPs need to be whitelisted from Bank end.

S. No.	IP Details	Port	Connectivity
1	103.14.161.34	443	PR
2	103.14.160.34	443	DR

9. Support

NACH Support Helpdesk can be contacted regarding any technical queries as per the contact details given below

Email ID : NACHSupport@npci.org.in

Contact Numbers : 044-28160741/42