**Accessing Vehicle Owner Details via VAHAN APIs**

Several third-party providers offer APIs that interface with the VAHAN database, enabling retrieval of vehicle and owner information:​

* **SurePass Vehicle RC to Mobile Number API**: Allows retrieval of the vehicle owner's mobile number, full name, address, fuel type, make and model, insurance validity, and more by inputting the vehicle’s RC number. ​[SurePass+1SurePass+1](https://surepass.io/vehicle-rc-to-mobile-number-api/)
* **Masters India VAHAN API**: Provides comprehensive vehicle details, including registration number, owner name, chassis number, engine number, insurance details, and more. ​
* **Zyla Labs Vehicle RC Verification API**: Enables verification of vehicle registration details, fetching information such as owner name, vehicle class, registration date, and more. ​[Zyla API Hub+1SurePass+1](https://zylalabs.com/api-marketplace" \t "_blank)
* **APIclub.in RC Verification API**: Offers extensive vehicle information, including license plate, owner name, registration date, brand, model, fuel type, insurance details, and financing status. ​[apiclub.in](https://www.apiclub.in/product/rc_verification_api)

**Important Considerations**

* **Access Restrictions**: Only Indian-registered companies with at least 50% Indian ownership are permitted to access VAHAN data. All data must be stored on servers located in India and monitored by security auditors to prevent data leakage. ​[The Hindu Business Line](https://www.thehindubusinessline.com/economy/now-only-indian-firms-can-access-vahan-big-data-and-for-a-fee/article27027855.ece)
* **Data Usage Fees**: Companies using VAHAN data for commercial purposes are required to pay an annual fee. ​[The Hindu Business Line](https://www.thehindubusinessline.com/economy/now-only-indian-firms-can-access-vahan-big-data-and-for-a-fee/article27027855.ece)
* **Compliance and Privacy**: Accessing and using VAHAN data must comply with applicable data protection and privacy laws. Ensure that your use case aligns with these regulations to avoid legal complications.​[The Hindu Business Line](https://www.thehindubusinessline.com/economy/now-only-indian-firms-can-access-vahan-big-data-and-for-a-fee/article27027855.ece)

If you're considering integrating such an API into your system, it's advisable to:

1. **Assess Your Eligibility**: Ensure your organization meets the criteria for accessing VAHAN data.​
2. **Choose a Reliable API Provider**: Evaluate the features, reliability, and compliance standards of API providers like SurePass, Masters India, Zyla Labs, or APIclub.in.​[SurePass+2apiclub.in+2docs.mastersindia.co+2](https://www.apiclub.in/product/rc_verification_api)
3. **Understand the Costs**: Be aware of any fees associated with accessing and using the data.​
4. **Ensure Compliance**: Implement necessary measures to comply with data storage, security, and privacy requirements.

Here's a **comparison of top third-party VAHAN API providers** that allow you to fetch vehicle and (in some cases) owner details, including **mobile number (when permitted)**, for integration into your system (such as DYD's platform):

### ****VAHAN API Providers Comparison****

| **Feature / Provider** | **SurePass** | **Masters India** | **Zyla Labs** | **APIclub.in** |
| --- | --- | --- | --- | --- |
| **API Access Type** | REST API | REST API | REST API | REST API |
| **Data Source** | VAHAN (MoRTH) | VAHAN (MoRTH) | VAHAN (aggregated) | VAHAN (aggregated) |
| **Key Data Provided** | Owner Name, Mobile No, RC details, Make/Model, Chassis, Insurance | Owner Name, Engine No, Chassis, Insurance, Financier | Owner, Fuel Type, Vehicle Class | Owner Name, Insurance, RC, Finance |
| **Mobile Number Access** | ✅ Available with proper authorization | ❌ Partially masked or not available | ❌ Not provided | ❌ Not provided |
| **Speed & Uptime** | Fast, 99.9% uptime | Reliable, enterprise-grade | Good | Good |
| **Compliance** | GDPR + Indian data norms compliant | Compliant with Indian regulations | GDPR Compliant | Basic compliance |
| **Pricing** | Pay-per-call / Monthly plan | Enterprise Plans | Affordable tiered model | Cost-effective for startups |
| **Demo / Testing** | ✅ Yes | ✅ Yes | ✅ Yes | ✅ Yes |
| **Website** | [surepass.io](https://surepass.io) | [mastersindia.co](https://mastersindia.co) | [zylalabs.com](https://zylalabs.com) | [apiclub.in](https://apiclub.in) |

Since you mentioned **mapping users’ mobile numbers with vehicles**, your best option is:

**➡️ SurePass (https://surepass.io/vehicle-rc-to-mobile-number-api)**

* They explicitly offer **RC-to-mobile-number matching**, which is rare.
* Used in fintech, auto service, and KYC domains.
* Best suited for DYD's personalized verification or vehicle subscription matching.

**Next Steps to Integrate:**

1. **Shortlist Provider** (Suggest: SurePass for now).
2. **Contact Their Sales Team** for access keys, pricing & compliance paperwork.
3. **Get API Docs** and share with your dev team.
4. **Test the API** in staging with dummy RC numbers.
5. **Deploy & Monitor** in production.

### ****Can You Find a Vehicle’s RC Number Using a Mobile Number?****

**No, there is currently no public or officially permitted API (including VAHAN) that allows you to reverse-search an RC number using a mobile number.**

**Why This Is Not Allowed:**

1. **Data Privacy Laws**  
   Under **India’s data protection and privacy frameworks**, personally identifiable information (PII) such as mobile numbers cannot be used to extract sensitive vehicle data like RC numbers **unless explicitly consented by the user**.
2. **VAHAN Policy**  
   VAHAN (run by the Ministry of Road Transport & Highways) provides APIs for vehicle verification **based on RC numbers only**. It does **not offer reverse mapping APIs** due to potential misuse.
3. **Security Concerns**  
   Reverse lookup from mobile number to RC would expose **private vehicle ownership data**, which can be exploited for fraud or harassment.

**✅ Legitimate Alternative (with Consent):**

If you want to **link a user's vehicle** with their mobile number in DYD:

* Ask the user to **voluntarily enter their RC number** via the app or website.
* Use this RC number to verify details using an authorized VAHAN API.
* Store and link the verified RC with the mobile number in your internal DB.

**Use Case Workaround for DYD:**

To improve UX while still being compliant:

* After login, prompt:  
  *"Verify your vehicle by entering your RC number. This helps us fetch accurate car details and enable faster service delivery."*
* Add autofill or suggestion features post-verification.

**⚡ Typical Response Time (Live API Call)**

* **API Response Time**:  
  🔹 **300ms to 2 seconds** (depending on the provider and server load)  
  🔹 Top providers like SurePass or Masters India offer low-latency, high-availability APIs.
* **App Processing Time** (parsing + displaying):  
  🔹 **100ms to 500ms**
* ✅ **Total Expected Time: ~0.5 to 3 seconds**

So the user should see their **car make, model, fuel type, insurance status**, etc., on screen **within 3 seconds** of submitting their RC number.

### ****Problems You Can Solve Using VAHAN API (Beyond Basic RC Validation)****

#### 1. 🔍 **Auto-Fill Vehicle Details**

**Problem:** Users enter inconsistent or incorrect vehicle info during onboarding.  
**Solution:** Use RC to auto-fetch:

* Vehicle brand, model, fuel type, variant
* Manufacturing year
* Registration state & RTO  
  ➡️ Improves service accuracy and reduces human error.

#### 2. 🧠 **Smart Part Mapping (Your Use Case)**

**Problem:** Manually identifying spare parts for a given vehicle is time-consuming and error-prone.  
**Solution:** Once you fetch:

* Make (e.g., Hyundai)
* Model (e.g., i20 Magna)
* Fuel Type
* Variant ➡️ You can link this to your **parts catalog** (internal DB or vendor API) to auto-suggest:
* OEM part numbers
* Available compatible parts
* Service/repair kits

#### 3. 🔄 **Subscription Plan Validity Checks**

**Problem:** Customers try to use subscriptions for a different car.  
**Solution:** Match RC-linked vehicle with subscription record using VAHAN API → **real-time eligibility enforcement**.

#### 4. 📅 **Insurance Validity Alerts**

**Problem:** Customers are unaware of insurance expiry, delaying renewals.  
**Solution:** VAHAN can return insurance expiry date → trigger:

* Reminders
* Renewal offers
* Custom insurance packages

#### 5. 🛑 **Fraud Prevention / Duplicate Booking Detection**

**Problem:** Same RC used across multiple accounts.  
**Solution:** Lock RC to one user account after verification to prevent misuse.

#### 6. 📈 **RTO-Based Analysis**

**Problem:** No visibility on user geography for ops/logistics planning.  
**Solution:** Use registration state & RTO info to:

* Cluster users regionally
* Pre-load service schedules
* Forecast location-based demand

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