# VeracityHub Phone Services API V2

**Version 2.0.0**

**Base URL**

https://api.veracityhub.io/v2

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Service

**Phone verify**

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# VeracityHub Phone Services API V2

**Version:** 2.0.0

**Base URL:** https://api.veracityhub.io/v2

## Overview

## Services Summary

The **VeracityHub API** provides comprehensive phone verification, identity matching, and data enrichment services powered by proprietary data integrations.

### Available Services

- **One Time Passcode (OTP):** Two-step OTP verification process
  - `/verify/start` - Send an OTP to a phone number
  - `/verify/complete` - Verify the OTP code and complete phone verification
- **OTP Reverse Bundle:** OTP verification with automatic reverse data append
  - `/verify/reverse-start` - Send an OTP to a phone number
  - `/verify/reverse-complete` - Verify the OTP and return enriched subscriber data
- **Identity Verify:** Match identity information against phone number
  - `/verify/identity` - Verify identity data using our identity matching service
- **Reverse Data Append:** Enrich phone records with additional data
  - `/data/append` - Normalize phone number and merge metadata
- **Number Verify:** Get carrier information
  - `/verify/carrier` - Retrieve carrier details for a phone number
- **Call Eligibility:** Check whether a phone number is eligible to be called
  - `/verify/call-eligibility` - Check call eligibility for a phone number

### Authorization

- Each client is issued a unique **API Token** by VeracityHub Support. This token is a string value that authenticates your application against the VeracityHub API services.
- All HTTP requests to the API *must* include this token in the request headers under the header key `X-API-Token`.
- Requests without this header, or with an invalid token, will result in an `HTTP 401 Unauthorized` response.
- For security, keep your API Token confidential. Do not embed it directly in client-side code or expose it in publicly accessible environments.

### One Time Passcode (OTP) Notes

**`/verify/start`**

- The `/verify/start` endpoint enforces a **2-minute cooldown interval** per unique phone number. This means that a single phone number can only be issued one OTP (one-time password) request within any given 2-minute window.

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Subsequent requests made before the cooldown expires will return an `HTTP 400 Bad Request` response with a descriptive error message.

- The SMS template delivered to end users, which contains the OTP code, is **pre-configured and managed at the account level**. If your business requirements necessitate adjustments to the message content (for example: branding, legal disclosures, or localization), please contact support@veracityhub.io to coordinate the update.

**`/verify/complete`**

- Upon successful OTP verification, the `/verify/complete` endpoint returns a successful verification response indicating that the phone number has been verified. No reverse lookup or data enrichment is performed by this endpoint.

**`/verify/reverse-start`**

- The `/verify/reverse-start` endpoint initiates the OTP Reverse Bundle workflow by sending a one-time passcode (OTP) to the supplied phone number. After the user receives the verification code, submit it to the `/verify/reverse-complete` endpoint to verify the OTP and automatically perform a Reverse Data Append.

**`/verify/reverse-complete`**

- The `/verify/reverse-complete` endpoint verifies the OTP and automatically performs a Reverse Data Append. If subscriber data is available, it is returned in the `meta` object. If no match is found, the `meta` fields will contain `null` values while maintaining a consistent response schema.

**`/verify/identity`**

- The Identity Match service uses various trusted data sources with Identity Match to verify that provided identity information matches the phone number owner. It returns match scores for each field provided (exact_match, partial_match, no_match, or null if not checked) along with an overall veracity_score (0-100).
- All identity fields except `phone_number` are optional. The more fields you provide, the more comprehensive the identity verification will be.

Need help? Contact Support.

## Authentication

| | |
|---|---|
| **Scheme** | ApiTokenAuth |
| **Type** | apiKey |
| **Header** | X-API-Token |

## Endpoints

GET /ping

## API health check

**Tags**

- Health

| Status | Description |
| --- | --- |
| 200 | Successful response |

**Response Example (200)**

```
{
    "pong": false
}
```

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POST **/verify/start**

## Start OTP Verification

Sends a one-time passcode (OTP) via SMS to the provided phone number.

**Rate Limiting:** A 2-minute cooldown is enforced per phone number.

**Demo Mode:** Use phone number `7777777777` to get a canned demo response.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567"
}
```

### Tags

- One Time Passcode (OTP)

| Status | Description |
|---|---|
| 200 | Verification code sent successfully |
| 400 | Bad request (cooldown, invalid input, or other failure) |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |

### Response Example (200)

```
{
    "success": true,
    "status": "",
    "carrier_name": "",
    "carrier_type": "",
    "message": "Success",
    "phone": "",
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

### Response Example (400)

```
null
```

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POST /verify/complete

## Complete OTP Verification

Validates the OTP code and completes phone verification.

No reverse lookup or subscriber data enrichment is performed by this endpoint.

**Demo Mode:** Use phone number `7777777777` to get a canned demo response.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |
| code | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567",
    "code": ""
}
```

### Tags

- One Time Passcode (OTP)

| Status | Description |
|---|---|
| 200 | Verification result |
| 400 | Bad request (no pending verification or invalid code) |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |

### Response Example (200)

```
{
    "success": true,
    "message": "Success",
    "data": null,
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

### Response Example (400)

```
null
```

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POST **/verify/reverse-start**

## Start OTP Reverse Bundle

Sends an OTP to begin the OTP Reverse Bundle workflow.

**Rate Limiting:** A 2-minute cooldown is enforced per phone number.

**Demo Mode:** Use phone number `7777777777` to get a canned demo response.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567"
}
```

### Tags

- OTP Reverse Bundle

| Status | Description |
|---|---|
| 200 | Verification code sent successfully |
| 400 | Bad request (cooldown, invalid input, or other failure) |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |

### Response Example (200)

```
{
    "success": true,
    "status": "",
    "carrier_name": "",
    "carrier_type": "",
    "message": "Success",
    "phone": "",
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

### Response Example (400)

```
null
```

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POST /verify/reverse-complete

## Complete OTP Reverse Bundle

Validates the OTP code and automatically performs a Reverse Data Append, returning enriched subscriber information when available.

**Demo Mode:** Use phone number `7777777777` to get a canned demo response.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |
| code | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567",
    "code": ""
}
```

### Tags

- OTP Reverse Bundle

| Status | Description |
|---|---|
| 200 | Verification result |
| 400 | Bad request (no pending verification or invalid code) |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |

### Response Example (200)

```
{
    "success": true,
    "message": "Success",
    "data": {
        "phone": "",
        "status": "",
        "meta": [],
        "verified_at": ""
    },
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

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**Response Example (400)**

```
null
```

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POST **/verify/identity**

## Verify identity information against phone number

Uses Twilio's Lookup v2 API with Identity Match to verify that provided identity information matches the phone number owner. Returns match scores for each field and an overall veracity score (0-100).

**All fields except phone_number are optional.** The more fields you provide, the more comprehensive the verification will be.

**Match Results:** Each field returns one of: `exact_match`, `partial_match`, `no_match`, or `null` (if not checked or unavailable).

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |
| first_name | string | No |
| last_name | string | No |
| address_1 | string | No |
| city | string | No |
| state | string | No |
| postal_code | string | No |
| country | string | No |
| date_of_birth | string | No |
| email | string | No |

### Request Example

```
{
    "phone_number": "5551234567",
    "first_name": "",
    "last_name": "",
    "address_1": "",
    "city": "",
    "state": "",
    "postal_code": "",
    "country": "",
    "date_of_birth": "1990-01-01",
    "email": "john@example.com"
```

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```
}
```

**Tags**

- Identity Verify

| Status | Description |
|---|---|
| 200 | Identity match completed successfully |
| 400 | Bad request (invalid phone number or lookup failed) |
| 401 | Unauthorized (missing or invalid API token) |
| 402 | Payment required (insufficient funds) |
| 429 | Too many requests (rate limited) |
| 500 | Unexpected server error |

**Response Example (200)**

```
{
    "success": true,
    "message": "Success",
    "data": null,
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

**Response Example (400)**

```
null
```

**Response Example (402)**

```
null
```

**Response Example (500)**

```
null
```

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POST **/data/append**

## Append data to a phone number

Normalizes a 10-digit US `phone_number` to E.164, performs a reverse-phone lookup if no record exists, persists the record as `verified`, and merges optional `data` into the record's `meta`.

**Demo behavior:** When `phone_number` is `7777777777` (i.e., `+17777777777` after normalization), a canned demo response is returned.

**Mapping-aware responses:** The response body is processed through a server-side mapping layer (`ResponseMapper`) scoped by `api_token_id`, so field names or shapes may be transformed based on your configuration.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |
| data | object | No |

### Request Example

```
{
    "phone_number": "5551234567",
    "data": []
}
```

### Tags

- Reverse Data Append

| Status | Description |
|---|---|
| 200 | Data appended or returned successfully. |
| 400 | Validation error (e.g., phone_number not exactly 10 digits; invalid data type). |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |
| 500 | Unexpected server error. |

### Response Example (200)

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```
{
    "success": true,
    "message": "Success",
    "data": {
        "phone": "",
        "status": "",
        "meta": [],
        "verified_at": ""
    }
}
```


**Response Example (400)**


```
null
```


**Response Example (500)**


```
null
```


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POST /verify/carrier

## Get carrier information for phone number

Retrieves carrier information including carrier name, type (mobile/landline/voip), and mobile network codes for a given phone number.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567"
}
```

### Tags

- Number Verify

| Status | Description |
|---|---|
| 200 | Carrier information retrieved successfully |
| 400 | Invalid phone number |
| 401 | Unauthorized (missing or invalid API token) |
| 429 | Too many requests (rate limited) |

### Response Example (200)

```
{
    "success": true,
    "data": {
        "carrier_name": "",
        "carrier_type": "",
        "mobile_country_code": "",
        "mobile_network_code": "",
        "line_status": "",
        "veracity_risk_score": ""
    },
    "message": "Success",
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```

### Response Example (400)

```
null
```

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POST **/verify/call-eligibility**

## Check call eligibility for a phone number

Checks whether a US phone number is eligible to be called.

The service checks the phone number against applicable Do Not Call, litigator, and call eligibility data sources.

**Service Access:** Call Eligibility must be enabled for your organization before this endpoint can be used. If the service is not enabled, the API returns an HTTP 403 Forbidden response.

**Important:** This endpoint performs a real-time call eligibility check.

### Request Parameters

| Name | Type | Required |
|---|---|---|
| phone_number | string | Yes |

### Request Example

```
{
    "phone_number": "5551234567"
}
```

### Tags

- Call Eligibility

| Status | Description |
|---|---|
| 200 | Call eligibility check completed successfully |
| 400 | Invalid phone number |
| 401 | Unauthorized (missing or invalid API token) |
| 403 | Call Eligibility service is not enabled for the organization |
| 429 | Too many requests (rate limited) |
| 500 | Unexpected server error |

### Response Example (200)

```
{
    "success": true,
```

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```
    "message": "Success",
    "status_code": 0,
    "data": {
        "phone_number": "5551234567",
        "result_code": "",
        "reason": "",
        "country": "",
        "region": "",
        "can_call": false
    },
    "request_id": "xxxxxxxx-xxxx-xxxx"
}
```


**Response Example (400)**


```
null
```


**Response Example (403)**


```
null
```


**Response Example (500)**


```
null
```


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