



# **TIDS Documentation**

*Release 0.1*

**TIDS**

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This document contains our API information, as well as specific technical information regarding our services. The documentation is divided into several sections. If you'd like to look directly at our API information, you can skip ahead to the [API](#) page—otherwise, please read through our documentation in order, and you should have a good understanding of how everything works, and what you need to do to integrate with our services.

If you have any questions, please send us an email: [contact@tidslc.com](mailto:contact@tidslc.com).



# ABOUT

Telephony Intelligence Data Services (TIDS, LLC) operates as a data provider. TIDS maintains data services to both the consumer and business segments through two distinct online channels. On the consumer side, TIDS operates through consumer oriented websites which allow the end user to purchase reports based on a reverse phone number look up. These reports typically include information, when available, associated with residential, business and cell phone numbers, Internet data including name, address, carrier and connection status. Our consumer services empower people with a measure of reassurance and peace of mind in the personal and professional decisions they make every day. This data is a means of providing predictive intelligence to prevent customers from unwittingly putting themselves or their family in harm's way. The business to business segment of TIDS has a separate online portal. This service is rendered to organizations that frequently require access to our data services for such practices as background screening, billing verification, fraud and crime investigation and debit collection. The Telephony Intelligence Data Services B2B side helps enable companies to benefit from increased efficiency and accuracy allowing them to enjoy a competitive advantage within their space. TIDS helps facilitate intelligent and informed decision-making across both our business and consumer segments for their businesses and in their lives.





# DATA OFFERED

We offer various data through our API. This data can be retrieved in either a single API query, or a specifically crafted query containing any of the data below.

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**Note:** For more information on accounts and pricing, visit our website: <http://tirs.us/>.

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Currently, we provide:

## 2.1 Full Name and Address

The name and address of the telephone number subscriber. This information is obtained in real-time from various databases, including telephone company billing records, directory assistance, and others.

## 2.2 Billing Name and Address

The actual name and address to which the subscriber's telephone bill is mailed, which may be separate from the service address. This information is obtained in real-time from the telephone company that operates the subscriber's line.

## 2.3 Caller ID Information (SS7)

The actual Caller ID information for the telephone number. This information is obtained in real-time from the telephone company that operates the subscriber's line.

## 2.4 Caller ID Information (non-SS7)

Extrapolated Caller ID information for the telephone number. This information is obtained from various non-telephone-company sources, and may be out of date.

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**Note:** This information may be outdated as it is pulled from our cache and only re-generated every-so-often. If you want real time caller ID data please use our *Caller ID Information (SS7)* caller ID information instead.

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## 2.5 Current Service Provider

The name of the telephone company that currently provides service to the telephone number. This information is obtained in real-time, and will always return the correct current service provider for any ported or transferred number.

## 2.6 Telephone Company Name

The complete legal name of the entity which operates the telephone exchange.

## 2.7 Telephone Company Identification Number (OCN)

The 4-digit “Operating Company Number” of the legal entity which operates the telephone exchange.

## 2.8 Telephone Company Type

The legal status of the entity which operates the telephone exchange. Examples of this status are “Regional Bell Operating Company” (RBOC), Competitive Local Exchange Carrier (CLEC), and Incumbent Local Exchange Carrier (ILEC).

## 2.9 City

The name of the city in which the telephone exchange is located.

## 2.10 State / Province

The name of the US State or Canadian Province in which the telephone exchange is located.

## 2.11 County

The name of the US County in which the telephone exchange is located.

## 2.12 Postal Code

The postal code of the location in which the telephone exchange is located.

## 2.13 Assign Date

The date in which the telephone exchange was used for the first time.

## 2.14 LATA Code Number

The “Local Access and Transport Area” (LATA) number for the telephone exchange.

## 2.15 LATA Code Description

A description of the “Local Access and Transport Area” (LATA) number for the telephone exchange.

## 2.16 Equipment Identification Number (CLLI Code)

The “Common Language Location Identifier” code for the physical equipment servicing the telephone exchange. This code identifies the location and type of telecommunications equipment or of a relevant location such as an international border or manhole location.

## 2.17 Equipment Physical Location (Ratecenter)

The geographic area of the physical equipment servicing the telephone exchange. This information is typically used set rate boundaries for billing and for the issuing of telephone numbers.

## 2.18 Equipment Physical Location (GPS Coordinates)

The latitude and longitude coordinates of the physical equipment servicing the telephone exchange.

## 2.19 Equipment Type

The model name and/or model number for the physical equipment servicing the telephone exchange.

## 2.20 Equipment Manufacturer

The name of the company that manufactured the physical equipment servicing the telephone exchange.

## 2.21 Equipment Name

The name assigned by the telephone company to the physical equipment servicing the telephone exchange.



# GETTING STARTED

In order to get started with our API, you need to:

1. Sign up for an account on our website, <http://tirs.us/>.
2. Log into your account dashboard, and view your API key on the right side of the page: <http://tirs.us/order.php>.
3. Plug your API key into your application(s) that use our API.
4. When your API key is used, you will be automatically billed for any usage.

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**Note: KEEP YOUR API KEY SECRET!** Your API key allows complete access to your account. Exposing your API key publicly gives other people complete control to your account.

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# LIBRARIES

Sorry, we don't have any libraries yet! We're currently working on building API libraries in a variety of programming languages, to make interacting with our API even simpler than it already is.

If you'd like to get more information about our libraries, please send us an email at [contact@tidslc.com](mailto:contact@tidslc.com).





# API

TIDS is a suite of RESTful web services for requesting real-time data given phone number inputs.

## 5.1 Basics

We currently provide a single API URL, which allows you to pragmatically choose what data is returned. The base URL for all API requests is:

```
http://api.tirs.us/1/tndata/
```

---

**Note:** Since our API provides read-only information for the time being, you *must* hit our API with HTTP GET requests, otherwise we'll return a HTTP 405 error.

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## 5.2 Structure

Every API request must contain three crucial bits of information in order to be executed successfully.

1. Each API request must contain your unique API key. If you don't have an API key yet, please read the [Getting Started](#) page before continuing. **Please keep your API key confidential.** We bill for API requests based on the API key, so if anyone gets your API key they will have full access to your account. The API must be specified in each request's URL:

```
http://api.tirs.us/1/tndata/?apikey=xxxxx
```

2. All API requests must also contain the telephone number(s) you wish to query. Specifying single telephone numbers is as simple as:

```
http://api.tirs.us/1/tndata/?apikey=xxx&tn=18882223333
```

And specifying multiple telephone numbers can be done using a comma separated list:

```
http://api.tirs.us/1/tndata/?apikey=xxx&tn=18882223333,15555555555,12223334444,...
```

3. Lastly, each API request must specify the types of data that the query should return. This allows you to pick and choose exactly what bits of data you would like to get for the telephone numbers being queried. The full list of data you can query, and what it will return can be found below.

## 5.3 Data

The following table shows all of the currently provided data that we're able to return in API requests. In order to request a particular piece of data in your API query, simply append the shortcode value to the *q* value in your API URL.

For example, if you wanted to return *only* the *Full Name and Address* you could do:

```
http://api.tirs.us/1/tndata/?apikey=xxx&tn=18882223333&q=a
```

If you wanted to return both the *Current Service Provider* and the *Telephone Company Type*, you could do:

```
http://api.tirs.us/1/tndata/?apikey=xxx&tn=18882223333&q=ae
```

You can specify as many shortcodes in each API request as you would like. Here are all of the available queries, along with their associated shortcodes and return values:

Short-code	Query	Returns
a	Full Name and Address	Last Name, First Name, Address, City, State, ZIP
b	Billing Name and Address	Last Name, First Name, Address, Address2, City, State, ZIP
c	Caller ID Information (SS7)	Caller ID Information (SS7)
d	Caller ID Information (non-SS7)	Caller ID Information (non-SS7)
e	Current Service Provider	Current Service Provider
i	Telephone Company Name	Telephone Company Name
j	Telephone Company Identification Number (OCN)	Telephone Company Identification Number (OCN)
k	Telephone Company Type	Telephone Company Type
l	City	City
m	State / Province	State / Province
M	State / Province (long)	State / Province (long)
n	County	County
o	Postal Code	Postal Code
p	Assign Date	Assign Date
r	LATA Code Number	LATA Code Number
s	LATA Code Description	LATA Code Number
t	Equipment Identification Number (CLLI Code)	Equipment Identification Number (CLLI Code)
u	Equipment Physical Location (Ratecenter)	Equipment Physical Location (Ratecenter)
v	Equipment Physical Location (GPS Coordinates)	Equipment Physical Location (GPS Coordinates)
w	Equipment Type	Equipment Type
x	Equipment Manufacturer	Equipment Manufacturer
y	Equipment Name	Equipment Name

## 5.4 Output

All API responses are returned in CSV format with a mimetype of 'text/csv'. Every API response has two parts:

1. A response line that contains information about the API request processed, and:
2. One line of data for each telephone number queried.

The response line that is returned is of the format:

HTTP Status Code	HTTP Response Description	Total Cost of Request	Remaining Account Balance
------------------	---------------------------	-----------------------	---------------------------

- The *HTTP Status Code* is the HTTP status code that this request generated.
- The *HTTP Response Description* is the textual description of the *HTTP Status Code*.
- The *Total Cost of the Request* is the amount of money (in dollars) that all API requests cost.
- The *Remaining Account Balance* is the amount of money left in the account for future API queries. This amount takes into account the *Total Cost of the Request*.

A typical response line may look something like:

```
200, OK, 6.1, 493.900
```

The remaining information returned for each API request contains information about the telephone number(s) queried. The format for this information is as follows:

Telephone Number	Request Status Code	Cost of Request	Data Returned
------------------	---------------------	-----------------	---------------

- The *Request Status Code* (like HTTP response codes) signals whether the telephone number query we attempted was successful or not. Unsuccessful queries are not charged.
- The *Cost of Request* is the amount of money (in dollars) that the request cost to generate.
- The *Data Returned* is the requested data.

A typical response line may look something like:

```
2024445555, 200, 0, 9211
2053334444, 200, 0, 7475
```

Or:

```
2021112222, 200, 5.05, UNITED STATES GOVERNMENT||1600 Pennsylvania Ave|Washington|DC|20500, |||||, WHITE
```

And that's all there is to it!

## 5.5 Example Queries and Responses

Below are some example API query URLs and their responses. These may be used as a basis for performing API queries.

1. The query below attempts to fetch the *City* data for the phone number 555-444-3333. Since our API is unable to find the data requested, our header line shows a total cost of 0 dollars for the transaction, and our telephone number line shows a 404 status code, indicating that the lookup failed. As you'll notice, the cost show for our telephone number transaction is also 0.

### Query:

```
http://api.tirs.us/1/tndata/?apikey=xxx&q=1&tn=5554443333
```

### Response:

```
200, OK, 0, 500.25
5554443333, 404, 0
```

2. The API request below looks up the *Current Service Provider* and *Telephone Company Name* of two telephone numbers: 212-348-8882 and 205-936-6411.

### Query:

`http://api.tirs.us/1/tndata/?apikey=xxx&q=ei&tn=2123488882,2059366411`

**Response:**

200,OK,0.7,499.0

2123488882,200,0.35,PAETEC COMMUNICATIONS INC.,VERIZON NEW YORK INC.

2059366411,200,0.35,NEW CINGULAR WIRELESS PCS LLC - GA,CELLCO PARTNERSHIP DBA VERIZON WIRELESS -

# SUPPORT

Got any questions after reading through our documentation? Send us an email: [contact@tidslc.com](mailto:contact@tidslc.com), and we'll be happy to help.