



The Growing Threat

Phone numbers have long become a part of our identity. At the same time, many online and mobile services are delivering one-time passwords over SMS for the purpose of account registration or two-factor authentication. This has created significant opportunities for fraudsters who are exploiting insufficiently secured services for their own gain. A common scenario occurs when fraudsters create online accounts using inactive phone numbers. If the registration process doesn't confirm the validity of the phone number, fraudsters can then automate the account creation. These fake accounts can be used afterwards for spam or other illegal activities.

The netnumber Solution – Number Check

The netnumber Number Check service brings in real-time phone number intelligence to help prevent a multitude of fraud types. Number Check evaluates the likelihood of a phone number anywhere in the world being valid or invalid, enabling brands, enterprises and communication service providers to enhance their phone number verification processes. With a simple, API-based implementation, Number Check allows for existing user data to be scrubbed regularly, and users with inactive phone numbers can be prompted to update their accounts to keep them secure.

With the FCC's recent crackdown on unlawful messaging, a new Report and Order now requires U.S. wireless carriers to implement heightened verification processes. At the same time, as security concerns grow across the global communications ecosystem, members of the telecom community must now ensure that they are optimizing their fraud prevention solutions for both messaging and voice origination and termination.

With Number Check brands, enterprises, and communications service providers can validate phone numbers from any country in the world to screen for potential fraud and meet stringent new policies.

Key Capabilities

Real-Time Number Verification

The Number Check API returns phone number data in milliseconds. This underpins real-time flows like transmission of messaging or voice traffic, verification of financial transactions and registration of user accounts.

DNO (Do-Not-Originate) Data

Number Check evaluates in real time if a phone number is a valid message sender ID or voice caller ID. This enables communication service providers to protect their networks and comply with the FCC DNO requirements, including the Report and Order targeting unlawful text messages.

Smart Logic

In contrast to static and limited phone number ranges and DNO lists that may be in use today, Number Check is a true global service that evaluates a broad set of data points in real time to ensure customers benefit from comprehensive, up-to-date information. Even when fraudsters quickly change their tactics in an attempt to maximize profits, Number Check customers are one step ahead.

Global Carrier Mapping Registry (GCMR)

Number Check customers get free access to the Global Carrier Mapping Registry (GCMR) database. The GCMR is the world's most widely utilized carrier identification database. The GCMR identifies every communications service provider in the world (over 200 countries) via a six-digit routing ID called an nnID. The GCMR provides the translation of the nnID into key information about the destination operator.

Fully Redundant – Managed Service

netnumber operates a fully redundant service which is managed and staffed 24x7. This ensures that you will receive carrier-grade service, availability and performance.

Number Check Business Benefits

- Helps prevent fraud using real-time phone number intelligence
- Strengthens the users account creation by ensuring phone numbers are active and assigned
- Helps call centers and marketers save cost by eliminating dial outs to inactive phone numbers
- Helps prevent fraudulent financial transactions

Number Check enhances workflows where phone numbers are collected or used. With a real-time query that doesn't require end user interaction, each phone number can be checked for its validity. This ensures that only valid phone numbers are captured, which reduces the risk associated with spam and fake accounts.

Service Providers can save a part of the cost of terminating SMS or voice calls by checking if the receiving phone numbers are valid or not. Routing messaging or voice traffic to such numbers can be avoided, and the corresponding termination cost can be saved. Number Check validates the originating number too, flagging those that might be DNO (Do-Not-Originate) or helping mitigate CLI refiling in an Origin-Based Rating (OBR) scenario.

About netnumber

Netnumber is the world-leading provider of phone number intelligence data. At the forefront of telecommunications for over two decades, the company delivers market-leading real-time number data and routing solutions to Enterprises as well as Messaging and Communication Service Providers, powering communication networks globally, strengthening security and combating fraud. By integrating its comprehensive collection of global number databases, netnumber Service Registry®, and other data sets, netnumber provides an unparalleled range of solutions that underpin number portability, routing and billing of voice and data services.

To learn more about netnumber, visit [netnumber.com](https://www.netnumber.com) or follow the company on LinkedIn, Twitter or Facebook.

Number Check Use Case: User Account Verification

Number Check enables customers to strengthen their account verification upon new user registration. A customer prompts a new user to provide their phone number and then queries the Number Check platform with the phone number as a parameter. The answer is sent in real-time by netnumber and includes an indicator of the phone number being valid or not. In the case of an invalid phone number, the customer can adapt the registration workflow by prompting the user to check the phone number format or by adding a CAPTCHA step for authentication.

+ Next Steps

Number Check integrates seamlessly with existing systems through RESTful API implementation, enabling rapid deployment without extensive technical overhead. Our team provides comprehensive implementation support and ongoing technical assistance to ensure optimal service performance.

To explore how Number Check can strengthen your organization's phone number verification processes and reduce fraud exposure, contact our solutions team for a detailed consultation and custom implementation roadmap.