

The Growing Threat

Phone numbers are now part of digital identity, but number portability and high SIM churn mean they no longer reliably indicate current carrier or line type.



As a result, routing and fraud decisions based on outdated data lead to failed delivery and increased costs.

Your Challenge:

Phone Numbers No Longer Indicate Carrier or Type

Phone numbers go through frequent changes as they are used for day-to-day communication. With number portability rates exceeding 50% in some markets and widespread prepaid usage, a single phone number may be associated with multiple carriers over time.

This creates a complex environment where it becomes difficult to continuously track and verify a phone number's current state.

As a result:

- Routing based on number prefix leads to failed delivery and increased costs
- Fraud detection is weakened by outdated number data
- Customer data becomes inaccurate over time

The netnumber Solution: Carrier ID

Carrier ID provides access to high-quality number portability data across more than 100 countries, each with unique regulatory and technical requirements.

Netnumber integrates code range, number portability, mobile operator, and third-party datasets into a single service, normalizing disparate data for consistent use.

Given a phone number, Carrier ID resolves the current telecommunications service provider and returns the data needed to determine carrier, line type, and routing requirements.

The service is delivered via cloud, or AWS deployment, providing fast and reliable response times at global scale.

Service providers can achieve measurable cost savings by avoiding termination fees for invalid destinations, while enterprises strengthen their security posture and regulatory compliance simultaneously.

Netnumber Carrier ID Key Capabilities

Carrier Identification

Identify the current carrier of any phone number globally.

Line Type Detection

Determine whether a phone number is mobile or landline.

Portability Awareness

Detect when a number has changed networks due to portability.

Data for Routing and Risk Signals

Support routing, fraud detection, and customer data enrichment.

Business Benefits

- Improves SMS and voice delivery success
- Reduces routing errors and costs
- Improves customer data accuracy
- Supports fraud detection with carrier and number type data



Use Cases

Customer Data Enrichment

Improve segmentation and data accuracy using carrier and line type.

Least-Cost Routing

Route voice and messaging traffic using current carrier data.

Service Routing

Select the correct delivery method based on number type.

Fraud Prevention

Enhance risk scoring using carrier and number type signals.

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](#).

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Carrier ID vs. Number Check

- **Carrier ID** → identifies carrier and line type
- **Number Check** → validates number status and reachability

Together, they provide a complete view of phone number intelligence.

Our experienced team provides comprehensive implementation support and ongoing technical assistance to ensure optimal service performance.

Contact us today at [netnumber.com](https://www.netnumber.com).