

# Number Provenance

## At a glance

**Objective:** To support risk management organisations in detecting fraudulent activity and identifying trustworthy accounts.

**Solution:** Provide deep insights into mobile numbers to verify their validity and uncover potential signs of suspicious behaviour.

**Key Outcome:** Enables companies to incorporate number intelligence into risk analysis, enhancing fraud detection and supporting secure onboarding.

## Key metrics

Number porting and history provide context for each number's activity lifecycle, identifying new versus established numbers.



**30%**

of number entries are potentially invalid



**BILLIONS**

of checks are performed by TMT ID each month

## CHALLENGES



**Lack of Telephone Number Insight:** Many organisations, especially those outside the US, may lack in-depth understanding of mobile numbers, making it difficult to assess their validity and trustworthiness, particularly on a global scale.

**High Prevalence of Invalid Numbers:** Significant numbers of invalid or fake phone numbers are entered into systems during onboarding and transactions, risking fraud exposure and poor data quality.

**Incomplete Verification Methods:** While name, address, and email are often verified, mobile numbers are frequently overlooked as a valuable identity verification tool.

## SOLUTIONS



**Mobile Number Verification:** Check the validity of each number, confirming if it's real, active, and allocated to an operator.

**Usage History Insights:** Provide context on each number's lifecycle, such as porting and query detection rate (QDR) history, distinguishing new numbers from those with longstanding activity.

**Global Contextual Intelligence:** Offer insights into the number's online presence and global associations, enhancing the context available for risk and fraud assessment.

**Augmented Risk Signalling:** Integrate mobile number data into broader risk signals, offering a fuller identity profile for fraud detection and transaction monitoring.



Number Validity



Number Context



Number History



## Future of Mobile-Centric Identity Verification

As mobile numbers increasingly define digital identities, TMT ID's expanding data solutions empower businesses to stay ahead of emerging fraud threats. Through ongoing innovation, TMT ID will continue to support enterprises in providing secure, seamless experiences.



Mobile Identity & Number Intelligence



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## BENEFITS

### Benefit One

1

**Enhanced Data Accuracy:** Validate if a mobile number is real and in use, directly reducing the risk of false data entries.

### Benefit Two

2

**Global Coverage and Expertise:** TMT ID's expansive data reach and expertise across countries help enterprises understand number context beyond USA-centric data, supporting risk analysis in regions like India, Spain, and beyond.

### Benefit Three

3

**Improved Fraud Detection:** Integrate mobile data into AI and transaction monitoring systems for advanced identification of suspicious behaviour patterns and potential fraud signals.

## INDUSTRY CONTEXT

With digital identity verification now essential across finance, e-commerce, and telecom, using mobile numbers as a core identity anchor is critical. TMT ID's solution meets this growing need, empowering clients to enhance security and compliance standards in a mobile-driven world.

## CUSTOMER IMPACT

Risk management firms benefit from integrating TMT ID's number intelligence, resulting in fewer onboarding delays and improved fraud prevention. One client noted a significant decrease in fraudulent account openings within the first quarter, highlighting the effectiveness of enhanced mobile number verification. This integration strengthens security and builds user trust with a smoother onboarding process.

## CLOSING THOUGHTS

TMT's number provenance solution provides critical mobile intelligence to risk management firms, enhancing their onboarding and transaction monitoring with a robust tool for fraud prevention. While mobile number data is not a standalone fraud indicator, it effectively augments other data points, helping enterprises detect abnormal patterns. This depth of insight, particularly across global contexts, distinguishes TMT ID from others in the market.