

Telcordia[®] Mobile ID

Preventing Fraud and Revenue Leakage

For Mobile Network Operators

Telcordia[®] Mobile ID provides over one million validated dial codes from more than 230 countries. It also offers authoritative, worldwide number portability-corrected routing data to help prevent international revenue share fraud and interconnection-related revenue leakage, including fraudulent roaming calls to premium rate services.

Enhance Your Financial Performance

With increasing competition and falling profit margins on voice and data services, Mobile Network Operator (MNO) efforts to prevent fraud and revenue leakage are more important today than ever before. Unfortunately, these efforts are often complicated by never-ending changes to country dial codes, national numbering plans, and a rapidly growing list of countries that have implemented number portability.

Telcordia[®] Mobile ID addresses the full range of routing and interconnection challenges you face by:

- Delivering authoritative data on dial codes and ported numbers from around the world
- Preventing fraudulent calls to premium rate services
- Plugging the revenue leakage from incorrect rating and billing
- Significantly decreasing the routing errors that degrade service quality
- Supporting the full range of global protocols, interfaces, and numbering plans.

Our Mobile ID service protects your bottom line against fraud by providing accurate and continuously updated dial codes that enable you to identify, manage, and preempt fraudulent calls to the thousands of different premium rate services numbers that exist worldwide. Armed with detailed and updated worldwide premium rate codes, you can immediately curtail calling activity to unauthorized services and destinations — this is extremely useful for prepaid roaming and in areas where a high incidence of SIM card theft is prevalent.

Mobile ID can also be used for billing validation with interconnection partners, and in addressing the international routing challenges caused by number portability. The service provides an originating MNO with a trustworthy source of number portability-corrected data to help it identify to which terminating network each international number belongs. The MNO can then select the most suitable international carrier or SMS hub provider available for least-cost routing and for optimal delivery of mobile, landline, and message traffic.

Obtain Dialing Data with Complete Confidence

You can save money, time, and resources by obtaining reliable, formatted, and normalized global dialing data from a single source. With Mobile ID, you can eliminate the need for the expensive and time-consuming in-house tasks of gathering and validating range holder dial codes and number portability-corrected data from all the national regulators and operators worldwide. Telcordia imports range holder and number portability data from authorized administrators on a per country basis, so you can count on the accuracy of the information.

We standardize our data formats and fields from country-specific number portability data — including over a million dial codes from more than 230 countries — into a common, normalized format for access by service providers. Our service is highly resilient and available because it's deployable with key solutions components replicated at multiple geographical locations.

Use Our Service Your Way

We offer flexible delivery options for Mobile ID data — File Transfer Protocol (FTP) downloads, ENUM query service, and SOAP/XML for incremental downloads — and you can even combine them if you wish. For example, you could use ENUM queries to obtain routing information and FTP downloads to execute billing and settlement. Whichever option you choose, Mobile ID gives you added flexibility by enabling access to subsets of data, based on your authorization and contractual agreements.

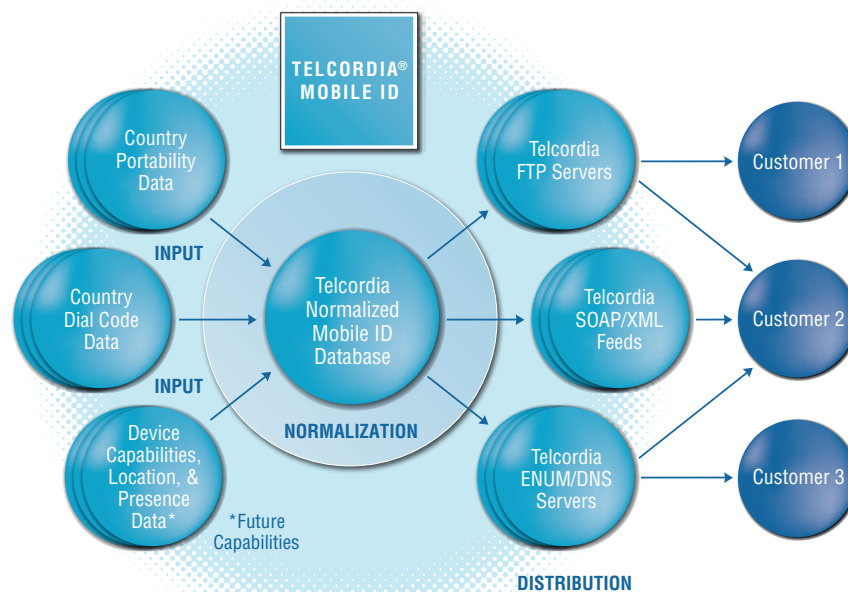


Figure: Mobile ID Architecture

Download Efficiently and Securely with FTP and SOAP/XML

With FTP, data access is through the Secure File Transfer Protocol (SFTP) — an interactive file transfer program that utilizes Secure Shell (SSH) protocol and public keys to provide authentication, confidentiality, and data integrity. Non-repudiation of the data is achieved through a digital signature using the recipient's public key.

SFTP maximizes download efficiency in two ways: first, it provides data compression; and second, its normal distribution via FTP and to name servers is incremental — which means that typically, it only distributes changes (additions, updates, and deletions) without massive

retransmissions of unchanged data. When operational circumstances require a full refresh, such as the initialization of a new server or restoration of a failed database, complete datasets can be distributed as compressed files.

Telcordia Mobile ID also supports a SOAP/XML interface as an additional download option, providing near real-time incremental downloads via Secure FTP that can be implemented after a bulk initialization.

Make Customized, On-Demand ENUM Queries

Telcordia hosted name servers support ENUM queries (per RFC 3761). Our hosted service can be easily configured for your customized routing data selections, based on both the origin of the queries (identities of the service providers issuing the queries) and the destinations (identities of the service providers serving the terminating parties).

We also support IPv6, allowing ENUM/DNS operations in both IPv4 and IPv6 networks, according to IETF BCP 91 recommendations. What's more, Telcordia has a provisional patent on the resolution logic that enables processing source data and answering queries against a name server with both telephone number and number block record entries.

Discover the Service That's Invaluable Today and Future-Ready

With Mobile ID, you can simplify your operations both today and as they evolve with:

- Application-neutral support for voice, SMS, MMS, VoIP, and other emerging IP-based services
- Worldwide numbering plan support (ITU-T E.164 numbering)
- A unified provisioning interface regardless of country or geography to simplify operations and save costs
- Support for standard protocols and interfaces (DNS, SIP, ENUM, SOAP/XML) for flexibility and lower integration costs
- Extensible support for new device capabilities and data types as they become available, including presence and location.

Learn More

Contact us and let's talk about your requirements, and how our Mobile ID service might help you cut costs, improve revenues, and relieve pressure on your organization by delivering the highest-quality dial code and routing data — conveniently and efficiently, every time.



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