



XConnect's Live Services

Validating Global Phone Numbers in
Real-Time



Our Live datasets

We provide managed access to HLR data from ~700 (and growing) mobile operators to give you routing and number status information. Only permitted attributes are provided, minimising the risks of privacy or security breaches.

Why do you need them?

Validation:

Identify invalid numbers in **real-time** and eliminate them from traffic and transactions to reduce delivery failures, reduce costs of failed attempts, permit correction of incomplete numbers and help to identify illegitimate and fraudulent traffic.

Routing:

Determine the operator responsible for terminating, originating, or providing services for a number. Understanding the end-to-end path for number ownership and portability allows the best route to be determined, including direct routing, to enable quality and reduce cost.



The benefits

Safe and accurate SMS delivery

- SMS delivery – In high-cost destinations it is more cost effective to know if a message might not be delivered before sending it as you may be charged anyway. Dependant on destinations, traffic indicated as undeliverable can be as high as 15%. Extremely relevant in emerging economies where multiple SIM cards to a single individual on pay as you go are popular.
- OTP SMS – Prevent fraud by testing whether a number is valid, allocated and registered before communicating with a customer, for example before sending an OTP message.

CPaaS and Contact Centres

- Call centre data checking - checking whether a list of numbers is valid and active before a campaign, to enable efficiency of agents and defer calls to absent subscribers or scrap calls that are likely to fail validation.
- Number validation for regulatory compliance – in some territories it's vital to check a number before routing calls and messages.

ID&V

- Need to know if a number has been ported that day? E.g. For new phone activation to a network.
- Validating a sign up – ensuring a number is correct before validating a customer.
- Checking a number before instigating a costly API call to an MNO – check the number is valid and active before doing further ID&V checks.
- Checking for disconnection – check if a number has been recently disconnected.

How to access our Live services

We support a range of technologies, driven by user preference and the capabilities of their platform. XConnect's APIs have been implemented by many voice and messaging providers, and although proprietary, conform with the general standards of each technology. On the whole, services are accessed via the public internet, secured by IPSec or HTTPS.

HTTP API

Preferred by web application platforms but increasingly used by telecom platforms.

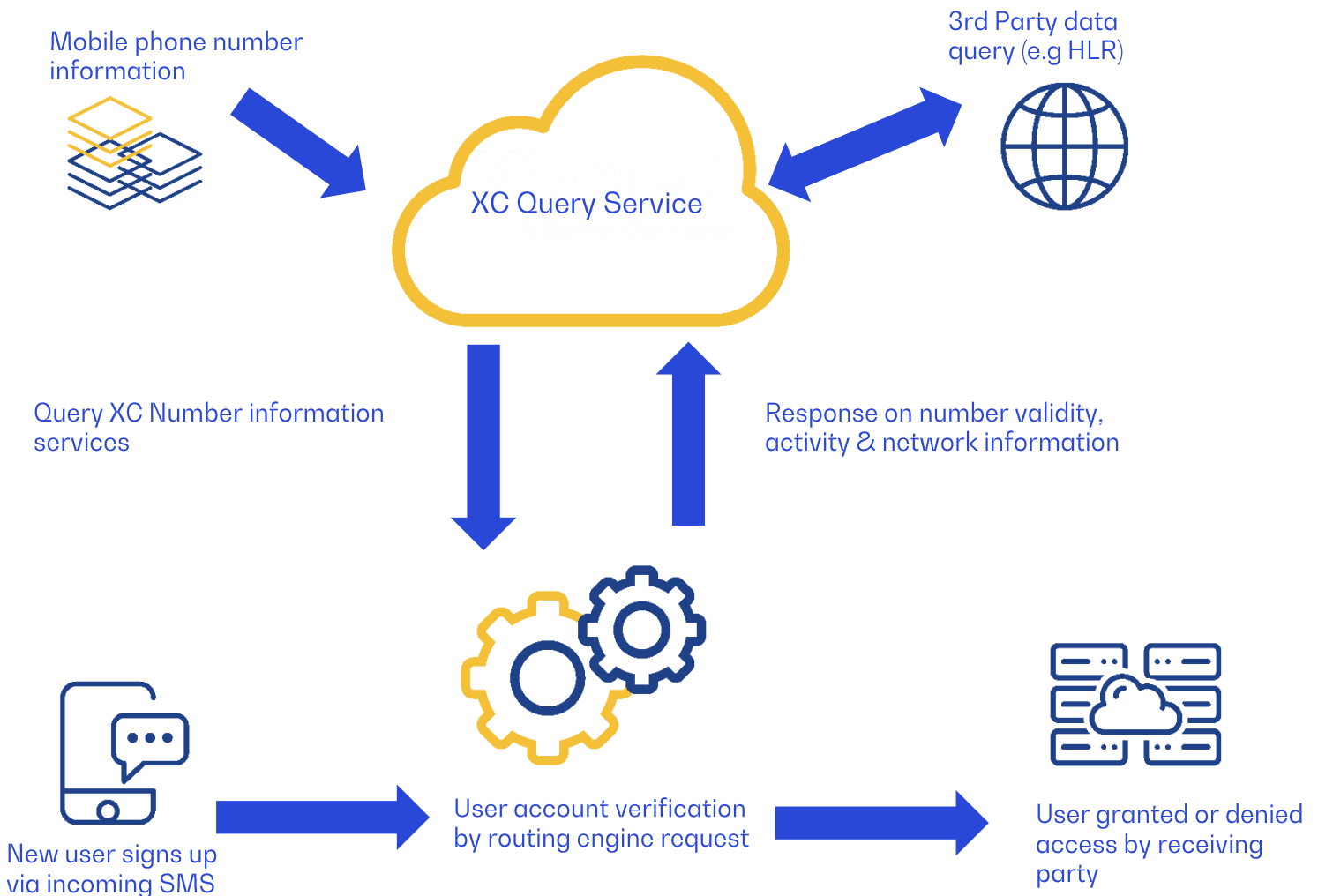
ENUM API

Preferred by network switches and firewalls where high performance and low processing overheads are required.

PORTAL

A web-based portal allows each of the services to be queried manually for individual numbers, by a batch upload and offline processing, also supporting manual reporting and web downloads of the GNR and DNO data sets.

How our Query Service Works



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XConnect
A Somos Company



XConnect's Number Information Services are used for voice and messaging routing, fraud protection and to identify and validate insights. They also support the deployment and evolution of next-generation communications, such as VoLTE and RCS.

XConnect's service is accessed through its global distributed hybrid cloud platform using simple, secure, scalable real-time protocols and APIs.

2.3bn

2.3 billion portability records

75%

Coverage across 75% of total global mobile subscribers

3.5bn

Over 3.5bn queries per month