Unlocking the Power of Global Number Intelligence

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Your Presenters



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Somos

SOMOS® at the core

Global Provider of telephone number & identity information services

FCC Selective Authoritative Source & Numbering Administrator

TFNRegistry™

Toll-Free Number Administrator :
Routing & Porting of 42M+ TFNs with 7.5+ SMS enabled

NANPA
North American Numbering Plan Administrator

North American Numbering Plan Administrator & National Pooling Administrator :
Supports 1,400+ Service Providers with 3B+ number identities

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Reassigned Numbers Database

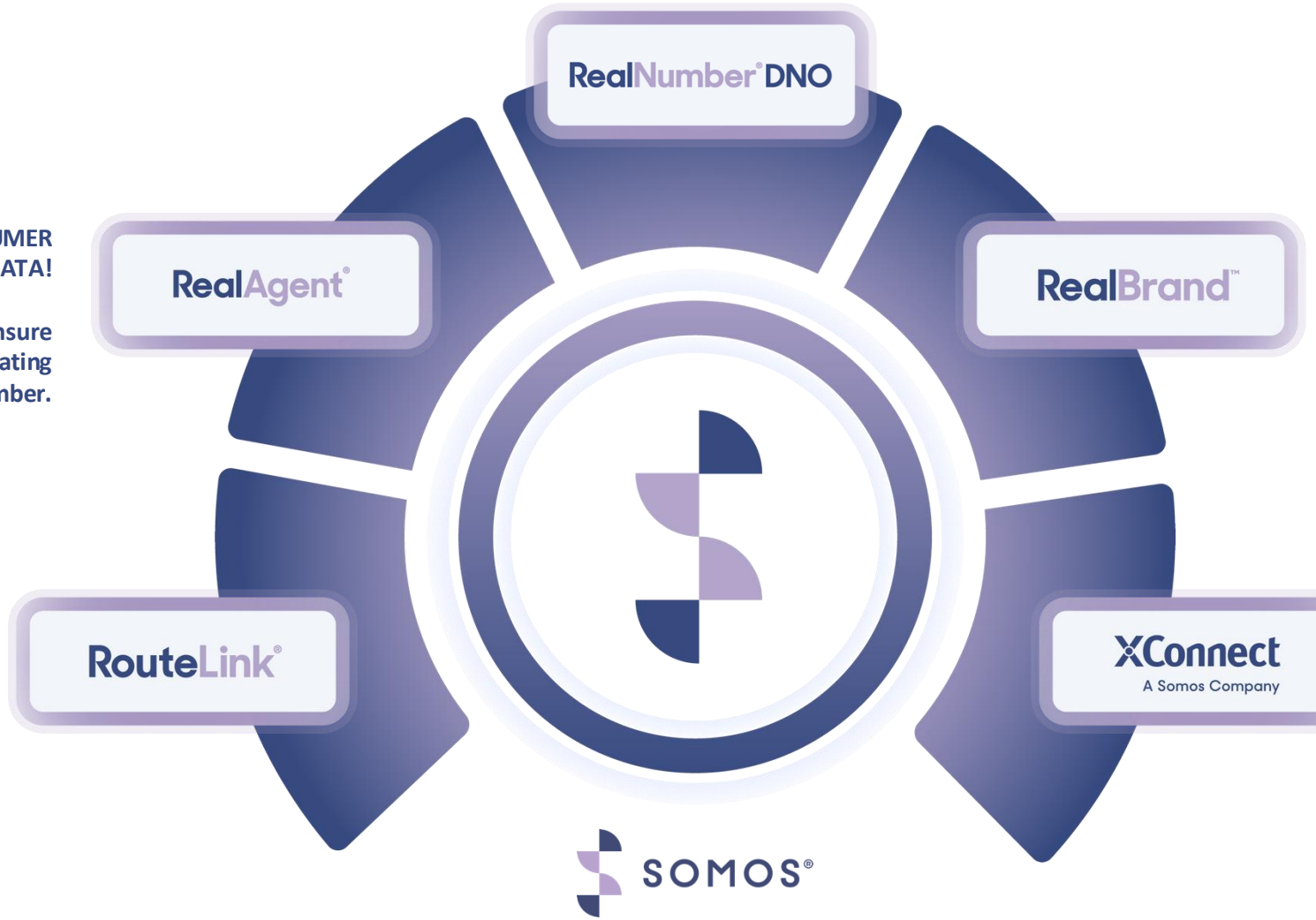
Reassigned Numbers Database Administrator :
10-digit & toll-free reassigned numbers

- Managing over 7 Billion identities
- Toll-Free Call Routing Data (traditional & IP)
- Trusted registry & data provider

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Phone Number Data for Smarter Decision Making

STOP FRAUD BEFORE IT HAPPENS!
A one-stop-shop for combatting illegally spoofed phone calls and texts to comply with FCC mandates.



CONFIDENCE IN CONSUMER PHONE NUMBER DATA!

Avoid TCPA violations and ensure robust data integrity by validating ownership of a phone number.

TRANSFORM YOUR PHONE NUMBERS INTO POWERFUL ASSETS!

A centralized number management tool to identify risks and vulnerabilities associated with each of your phone numbers.

HARNESS THE POWER OF TOLL-FREE ROUTING DATA.

The modern way to gain access to authoritative Toll-Free Routing data.

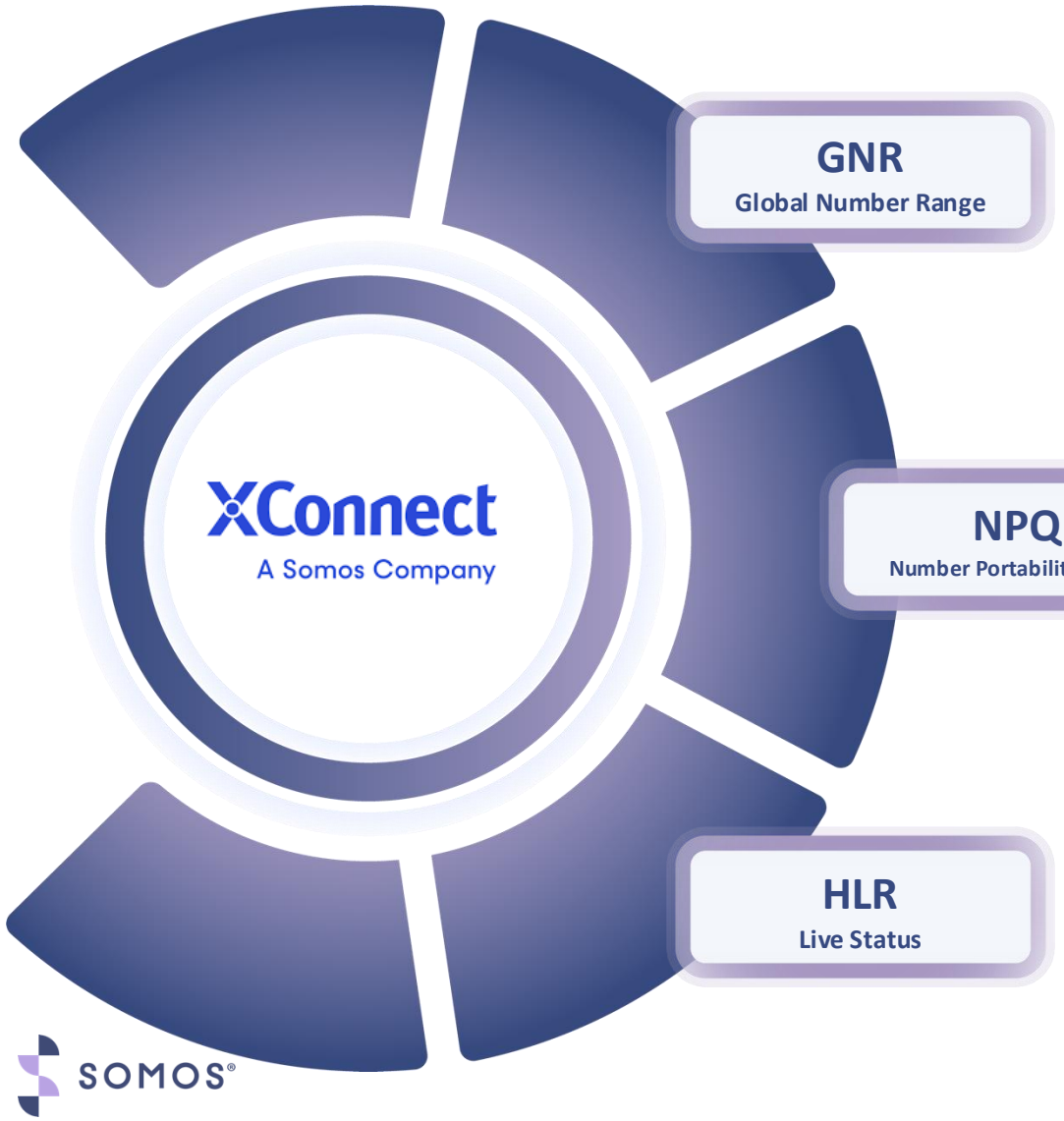
TRUSTED GLOBAL DATA

Global phone number data that validates and enables your communications methods.

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Unlocking the Power of Global Number Intelligence



EXPERT FRAUD DETECTION AND PREVENTION
The Global Number Range data set may be accessed by individual query, bulk query, or database download, allowing the user to identify the operator responsible for a number, or if it is unallocated, unknown, or a special number. Widely used for validation and the identification of invalid numbers.

IMPROVED DELIVERY FOR RECENTLY PORTED NUMBERS
Number portability data is accessed through real-time or bulk query and provides access to the Number Portability data, complemented by Global Number Range data for countries that do not have portability, offering a query service that will identify the terminating operator for almost every number globally.

SUPERIOR REAL-TIME MOBILE NUMBER INTELLIGENCE
HLR data is accessed through a live query or bulk query, returning information from the terminating mobile operator, identifying registration status, and the serving operator for the number queried.

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Global Number Range (GNR)

CHALLENGE

- **No Centralized Global Number Range Database Creates Critical Blind Spots**
- **Lack of Real-Time Visibility Increases Vulnerability to Fraud and Spoofing**
- **Managing Origin Based Routing (OBR) Can be Costly and Cumbersome**

VALUE

- **Proactively Mitigate Fraud with Verified Number Intelligence for Each Call and SMS**
- **Reduce and Avoid Origin Based Routing (OBR) Surcharges**
- **Single Source of Truth for Global Number Ranges**

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Global Number Range (GNR)

ACCESS TYPE

- SIP
- HTTP
- ENUM
- Download

QUERY RESPONSES

TN: Telephone Number
NT: Number Type
CC: ISO Country
CIC: Carrier Identification Code

CN: Carrier Name
MCC: Mobile Country Code
MNC: Mobile Network Code
RN: Routing Number



Reduce Fraud



Reduce Origin Based Rating (OBR) Risk



Optimize Voice and Messaging Operation

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Number Portability Query (NPQ)

CHALLENGE

- **Inefficient and Costly Call Routing Due to Inaccurate Porting Information**
- **Heightened Fraud Vulnerability and Risk of Service Disruption**
- **Operational Complexity in Managing Global Number Portability Ecosystem**

VALUE

- **Unlock Advanced Routing Intelligence for Cost and Performance Optimization**
- **Proactively Combat Fraud and Ensure Service**
- **Elevate Service Quality and Reliability at Scale**

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Number Portability Query (NPQ)

ACCESS TYPE

- SIP
- HTTP
- ENUM

QUERY RESPONSES

In addition to GNR responses, NPQ responses also include:
CN: Carrier Name (Port Corrected)
NPDI: Number Portability Dip Indicator
NPI: Number Ported Indicator
MCC: Mobile Country Code
MNC: Mobile Network Code (Port Corrected)
RN: Routing Number



Reduce Termination Costs



Service Level Improvements



Enable Sophisticated Routing

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Home Location Registers (HLR)

CHALLENGE

- **Limited Real-Time Visibility Into Subscriber Status**
- **Suboptimal Handling of Messaging and Voice Traffic**
- **Difficulty Identifying Mobile Number Attributes and Behavior**
- **Inability to Detect and Prevent Artificially Inflated Traffic (AIT)**

VALUE

- **Real-Time Mobile Number Intelligence for Reliable Communication Delivery**
- **Eliminate Wasted Spend on Undeliverable Messages and Calls**
- **Enhance Routing Efficiency and Strengthen Fraud Prevention**

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Home Location Registers (HLR)

ACCESS TYPE

- SIP
- HTTP
- ENUM

QUERY RESPONSES

NS: Number Status
(is the handset on and attached to the network)
RS: Roaming Status



NPQ Live

Real-time Lookup to Determine Routing



Validate Live

Real-time Live Mobile Number Validation



Live Status

Identify Real-time Number Allocation

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International Revenue Share Fraud (IRSF) Check

CHALLENGE

- **Ongoing Exposure to International Revenue Share Fraud (IRSF)**
- **Insufficient Real-Time Threat Detection and Response**
- **High Operational Overhead in Managing Distributed Fraud Intelligence**

VALUE

- **Real-Time Risk Intelligence for Proactive IRSF Blocking and Alerting**
- **Leverage Global Threat Intelligence from Trusted Fraud Databases**
- **Proven Protection Against IRSF Across Geographies and Traffic Types**

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International Revenue Share Fraud (IRSF) Check

ACCESS TYPE

- SIP
- HTTP
- ENUM

QUERY RESPONSES

Has the number been identified as IRSF?
Yes/No
IPRN: Yes/No



Real-time Tracking of IPRNs



19+ Million at High-Risk IRSF Numbers



Identify Compromised Accounts in Real-time

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XConnect
A Somos Company
Announces aquisition of
SEKURA.id

Questions?

Interested in learning more about Somos' Global Number Intelligence Solutions?

Reach out today!

connect@somos.com

Global Number Intelligence Goes Beyond Data —

Empowering Secure, Intelligent Communication at Every Touchpoint