porting xs

the process factory

Take **your** **number** with **you**

Always & Everywhere

Global Number Portability Solutions

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Founded in 2001, PortingXS is a Dutch number portability solutions supplier and service provider with active operations in more than 20 countries. In recent years the world has become our working place: from The Netherlands to Ghana, and from Gibraltar to Panama, we ensure that people can port their number when switching telecom provider.

Our core Business Number portability solutions and numbering management services.

Our Mission We provide reliable access to global telecoms data through smart applications.

Our Vision The globalization of markets and telecoms related data requires an organisation that provides reliable and accessible access, regardless of the size of the customer. Standardized or Customized: PortingXS provides your optimal solution.

PortingXS is a major contributor in advisory projects and developments in telecommunication and IT, especially where it concerns number portability, numbering management and related topics. Moreover, we focus on the opportunities and not on the problems. In our quest for solutions, we often examine unconventional routes and try to find solutions of a practical and efficient nature. This results in:

- ✓ Fast and reliable number portability
- ✓ Optimal service for telephony customers
- ✓ Accurate data on network locations
- ✓ High quality management information

The introduction of number portability is an important step in the liberalization of telecommunications markets. The definition of number portability: To enable subscribers to retain a telephone number when changing their network or service provider. PortingXS would like to add: In an easy, fast, safe and customer friendly manner. Let us show you how.

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We bring
Fast and **reliable number portability**
Optimal service for telephony customers
Accurate data on **network locations**
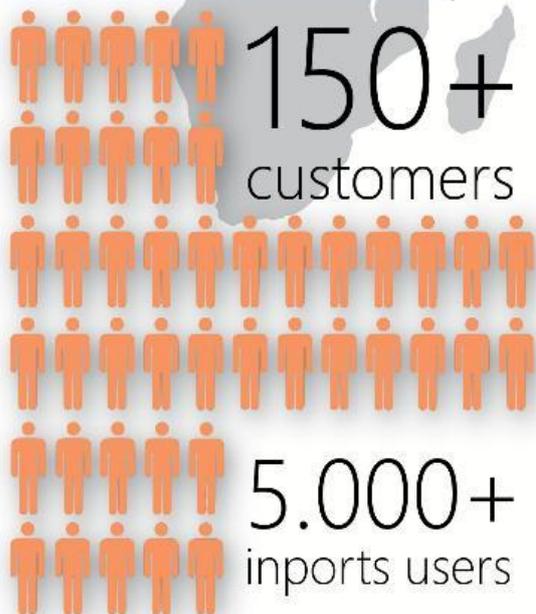**High quality** management **information**

1.000.000.000 numbers
All around the world

8126385967291023956842763254132583429560954372637512466174123453906898785676234156168725934687942010243053964780987 65

Fast and reliable portability
2 MINUTE
number porting

+316 123 45 678

150+
customers

5.000+
inports users

Our Services

PortingXS provides a wide range of services and SaaS solutions throughout Europe and the world. Our focus is always on Number Portability and Centralized Database Solutions combined with extensive number management services. Our range of products and services include:

- Number Portability Solutions
- Number Management Systems
- Gateway Solutions
- Central Reference Databases - CRDB
- Call Line Identifier Restriction - CLIR
- Directory Services
- Exclude Fraud Services
- CPS - interface

Our Customers and Network

We provide services and expertise for:

- ✓ Telecom Regulators
- ✓ Telecom Operators and Service providers
- ✓ Telecom Steering Groups
- ✓ Number Portability Associations

Global Presence

The Netherlands
Belgium
Guernsey
Jersey
Isle of Man
Gibraltar
Ireland
Benin
Nigeria
Bahrain
Ghana
Kenya
Namibia
Senegal
Tunisia
Bahamas
Cayman Islands
Haiti
Jamaica
Panama
Trinidad and Tobago

Our Solutions are

Flexible
As the porting process is simple but aligned to network operators internal processes, and include intuitive graphical user interface for reporting, and manual process execution, with over 5000 users worldwide;

Scalable
Our solution is designed to be scalable. Up scaling is possible without loss of service by adding additional servers;

Cost-effective
As we found international synergy and keep things simple, while supporting fully automated process execution, limiting manual labor and human errors;

User driven
With focused product development as portability is our core business and we use the solution ourselves to port more than 2 million numbers per year, which makes us unique in the world;

Customer oriented
Supporting SMS for input validations for Mobile Number Portability (MNP) and IVR for Fixed Number Portability, and to manage customer expectations, resulting in less than 1% blocked portings versus the otherwise over 20%;

Reliable
As it is a proven solution, implemented by a senior project team and supported by a knowledgeable service team, addressing 150 customers in 20 countries, with all implementations first-time-right;

Futureproof
By leveraging international experience while adapting to local requirements, with a flexible solution, integrating services such as number management, directory guides and exclusion lists.

Inports - Number Portability solution

Inports® is the complete solution for the number portability process. The application supports portability of all types of numbers, from mobile and fixed telephony, service and other types of telecommunication numbers. Inports® is available for regulators, telecom operators and service providers. Inports® can be fully integrated, be used as standalone portability solution and everything in between: whichever is preferred. Inports® consists of a number of services, which combined create the complete number portability suite.
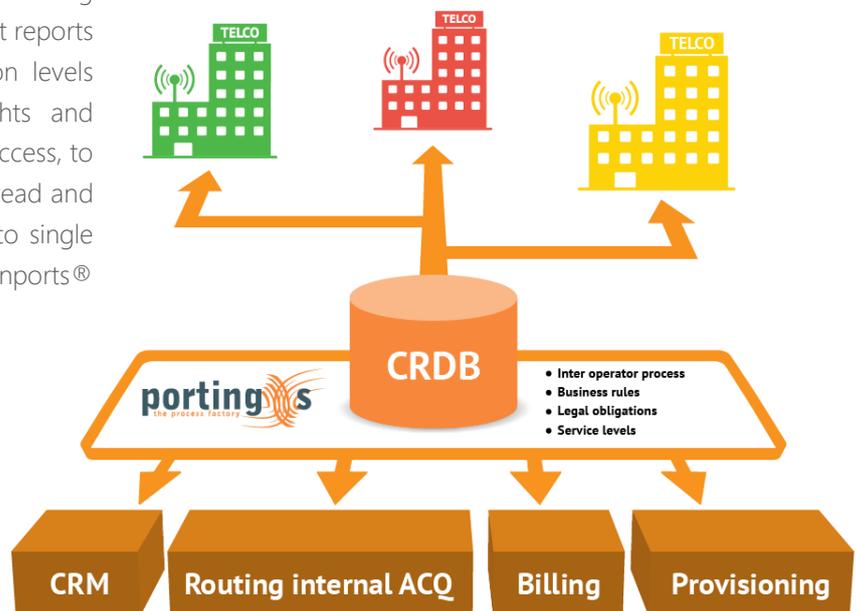
Online Number Portability

The Inports® web GUI provides real time access to the number porting system. Users are able to manage the complete porting process via the web interface.

From starting a porting request and performing all next process steps, to creating export reports on specific search items. Authorization levels allow for easy configuration of rights and restrictions. Varying from single entry access, to multi user access, from 'read only' to 'read and write', with configuration possible up to single message level. All managed from the Inports® GUI.

Furthermore, the management tab in Inports® allows for management of the complete process. Authorized users may configure or adjust the existing configuration on timers, windows and other configuration items. No need for extra implementation time or dependence on external parties: stay in control of the process yourself.

Fully automated number portability

Fully automated number portability available through internet via HTTPS SSL, this service enables other environments to manage porting requests using XML messages defined in WSDL schemes. The service is IP-restricted and requires authorization. All data streams are validated extensively against XSD, Business logic components and database rules. Configuration per user is possible, depending on the wishes. Standard definitions are available but also custom definitions can be implemented if required.
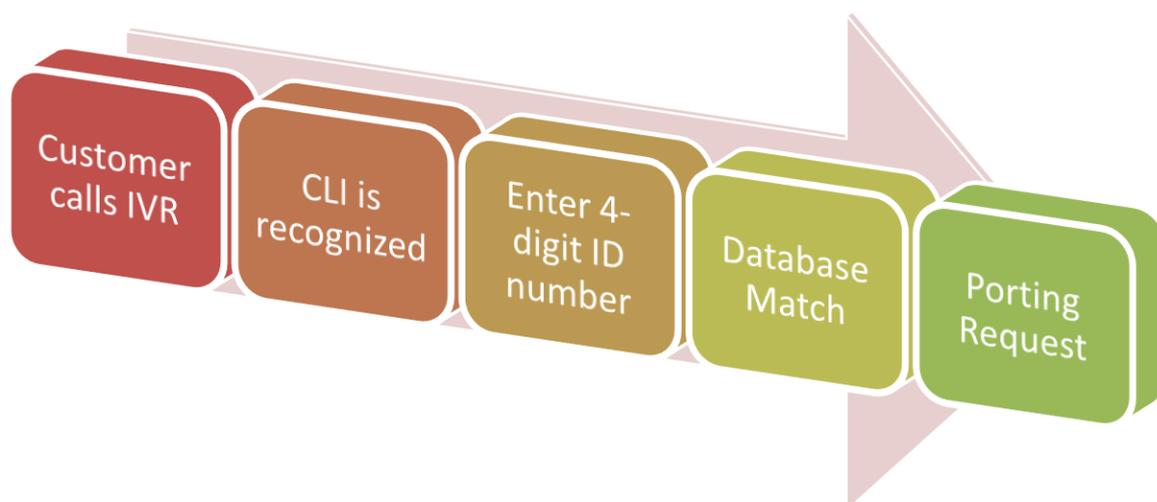
Smart validation for Fixed Number Portability

IVR solution

For the fixed number portability process (LNP / FNP) we provide in a Voice Response System solution (IVR).

The customer calls to an IVR using the to be ported number, the CLI is recognized and added to the PortingXS database. For further authorization purposes an optional 4 digit ID number can be implemented. If the number in the database is matched with a number in a request, the request for porting is sent to the Donor Operator triggering the porting process.

Customer calls IVR → CLI is recognized → Enter 4-digit ID number → Database Match → Porting Request

SMS validation for Number Portability

The unique Inports® SMS solution is an innovative way to provide a safe, easy and foremost customer friendly validation process in the porting flow. Instead of using all kinds of numbers for validation like account numbers, SIM numbers and so on, we use a SMS authorization message send by the customer.

All validation methods are necessary to check if the correct number is ported and that the customer owns this number. What we do with this validation: the customer sends a text message to a (short free phone) number with PORT in the content. Our tool receives this number from the operator and matches the number with the porting request in the database.

We now know that it is in fact the customer that wants to port, but we also see that we have a porting request for the correct number, using the CLI identification. Besides using the SMS for validation purposes, Inports® also can be programmed to inform customers during their porting journey. From messages that are sent in case of an rejection, informing the customer to change their SIM card at the moment of port. Messages can be branded on service provider level.

n.base
Numbering management made easy

PortingXS is proud to present n.base, a service that allows our customers to better manage the processes dealing with the national numbering plan.

With the ongoing liberalization of the telecommunication market, regulators and operators have been confronted with new/additional challenges regarding number management. They face rather complex issues when dealing with number management, such as:
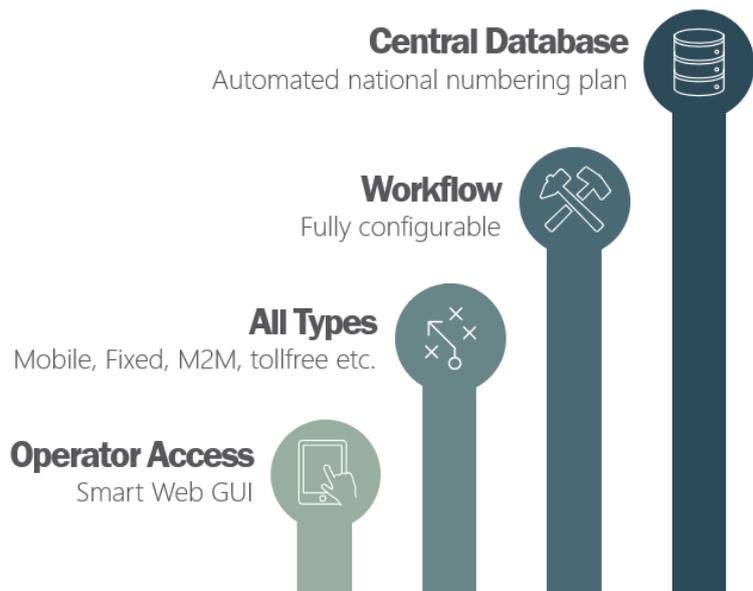
- ✓ What is my domain (overall national numbering plan)?
- ✓ Whom did I issue what number to?
- ✓ What have been the conditions attached to these issued numbers?
- ✓ What different types of numbers do I have?
- ✓ What is the status of each number (reserved, issued, available, etc.)
- ✓ What has been communicated with the operator?

The n.base solution is designed to anticipate these questions and to optimize and automate communication between the regulator and the operators. Through the system, application can be automated, reports can be generated and alerts can be configured. This will help both regulator as well as operators to better anticipate and plan ahead as well as simplify and speed up processes.

The national numbering plan is becoming more and more complex. New types of numbers are being issued, existing numbering plans may no longer suffice, and business rules may change. Some of the actual use cases are:

- A new numbering range for machine-to-machine (M2M) solutions.
- Implementation of number portability.
- An overview of available numbers/number ranges.
- Dependency with umbrella numbering plans (e.g. North American Numbering Plan).
- N.base allows regulators to start optimizing the number processes before introducing Number Portability.

Customers using Inports® as number portability solution knew already that a number of number management functions have been implemented. All these functions are of interest for operators. For regulators however the functionality is not enough. For that reason PortingXS has developed n.base and has added process functionality from a regulatory point of view. Basic functionality includes order/entry, allocation, reservation, assignment, the administrative workflow and control of the national numbering plan. Extensive reporting also belongs to the basic functionality. Needless to say that n.base can be fully integrated with Inports® – The Number Portability solution.

Central Database
Automated national numbering plan

Workflow
Fully configurable

All Types
Mobile, Fixed, M2M, tollfree etc.

Operator Access
Smart Web GUI

1 World – 1 Europe – 1 Gateway

Our Inports® architecture has been designed to fit Telecom Providers from all over the world. We understand ambitions of companies and want to help and service them in their international endeavours.

As we say: we take away the hassle. We have gateway solutions available, tailored or OTS to support your international business activities.

Single interface

Regardless of the country, the Inports® gateway allows you to have a single interface for all your number portability actions. You send us the information through our universal gateway and we direct the message into the right environment and perform all necessary country specific translation and formatting.

High Automation

Our gateway can easily be implemented using our XML API. We will translate the message into the countries' corresponding required formatting and perform all necessary actions in order to make the process run as smooth and quick as possible. All country specific non-mandatory business messages will be automated for your convenience. We will of course update you during the process through our automated interface and our Inports® web GUI.

Example Happy Flow KISS

1. Send Porting Request
2. Receive Agreement on an approved porting
3. Complete the porting on the desired time
   (of course respecting the existing country specific business rules)

Example Unhappy Flow

1. Send Porting Request
2. Receive Rejection on disapproved porting
3. Resubmit the porting until Approval or definitive Rejection
4. Complete the porting on the desired time
   (of course respecting the existing country specific business rules)

PORTINGXS

KNOWS

NUMBERS

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Global Number Portability Solutions