

enefits of MNP

Mobile Number Portability



Empowers customer to be lifelong owner of his mobile number while switching to best service provider. This saves them from additional hassle of updating contact books, informing friends, families etc.

Increases competition among operators for customer retention fostering better service quality, increased gamut of services, improved prices etc.

In some countries, where directory number resources (i.e. number ranges) were exhausted, the infrastructure to facilitate MNP allowed number planning administrators to assign number more efficiently

MNP is a facility which allows subscribers to retain their number even after switching operator, services or location.

MNP implementation started in late 1990s from mature European markets like Netherlands and UK. The objective was to facilitate competition amongst operators on other networks. Now it has been embraced by more than 70 countries.

Time taken to import number varies widely across countries



to more than a month in few other countries

Costs involved

Setup Cost – Cost of setting up NPDB (NP database), NP gateway server, Software development, Network upgrade, CRM upgrade etc.

Maintenance Cost – cost for the agreed procedure, activating the ported number, provisioning routing information

Call routing cost – Irrespective of number is ported or not, NPDB needs to be queried every time impacting network signaling and resources. This affects the network traffic and adds to the cost.

POTS Line Number Portability



Started in **1876**, this was the only service provided by CSPs till the introduction of **Integrated Service Digital Network (ISDN)** in 1980s. POTS still remains the basic form of residential and small business communication in major part of the world. It is called as Location Number Portability.

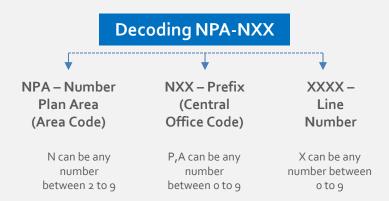
The NPA-XXX of a number used to identify the State and rate center of original operator, the Service provider and the carrier type

NPA-NXX is the address of the switch serving the Telephone number. When a number is posted, a 10-digit LRN number is associated with it



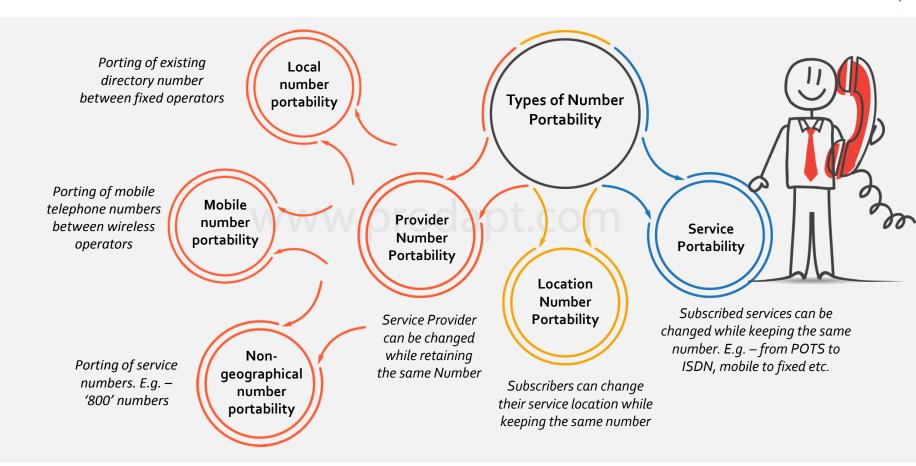
POTS line Number Portability

- It is also called as Local Number Portability
- It allows the user to switch their fixed line service provider while keeping the original telephone number
- LNP relies heavily on Location Routing Number (LRN) which is a unique 10 digit number assigned to each switch.

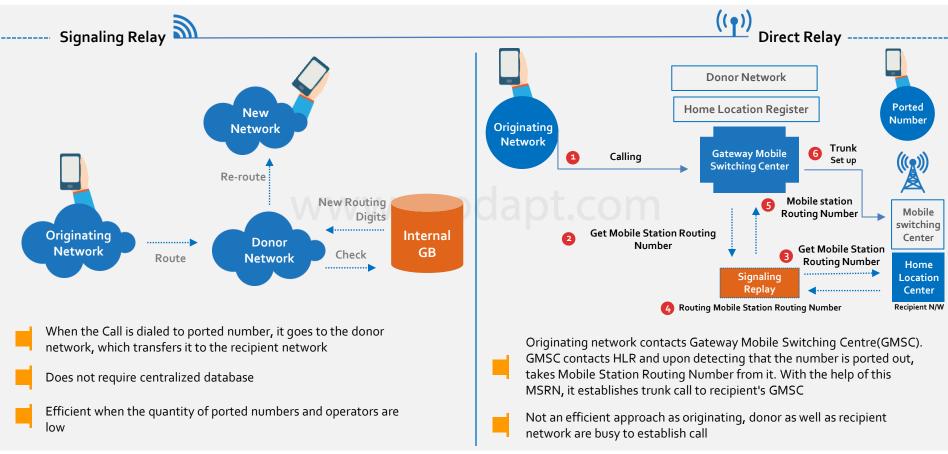


Prodapt.

Types Of Number Portability



Mechanisms of Number Portability



Mechanisms of Number Portability

All Call Query

A direct routing scheme which makes use of Centralized Number Portability Database

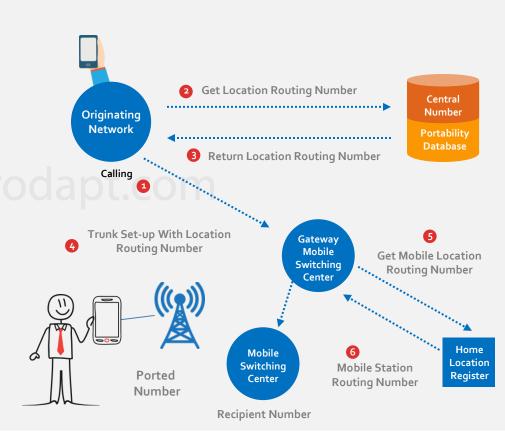
This is considered the most efficient method for large interconnected networks, with many operators and large quantity of ported numbers

The originating network directly queries the central ported database to determine the routing number required to call the recipient operator

After getting the number the call is directly routed to the recipient network

In the recipient network, call is directly forwarded to GMSC of recipient network, which trunks it to Mobile switching Center

The donor network is not involved in the process which makes it most resource efficient approach



Challenges in implementing MNP, Solutions through RPA and Benefits



Benefits



reduction in errors caused by manual intervention



of workforce can be reduced and moved to other intelligence heavy jobs



reduction in the time needed to complete the process



first touch resolution i.e. no. of events successfully completed in first attempt and sent to next step



Challenges in MNP

Order download from multiple customer portals Manual intervention required:

- Account number & Account telephone number validation
- Search & verify portable area
- Order creation in legacy application

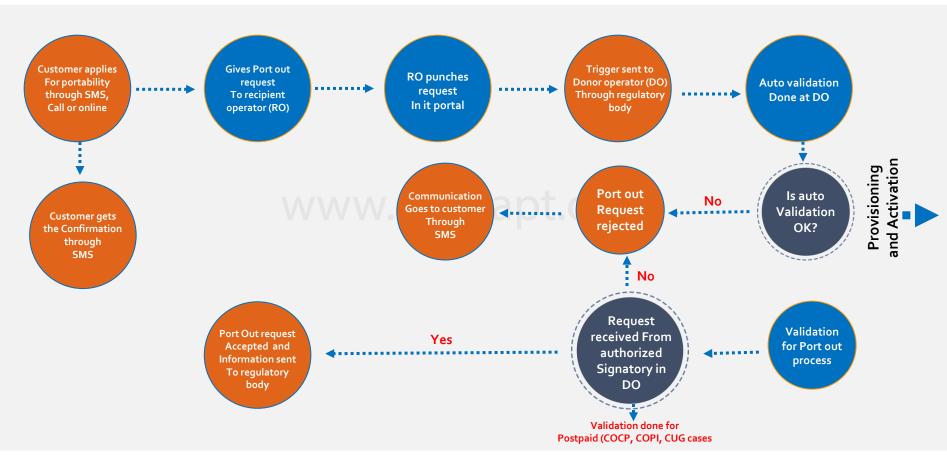


Solutions

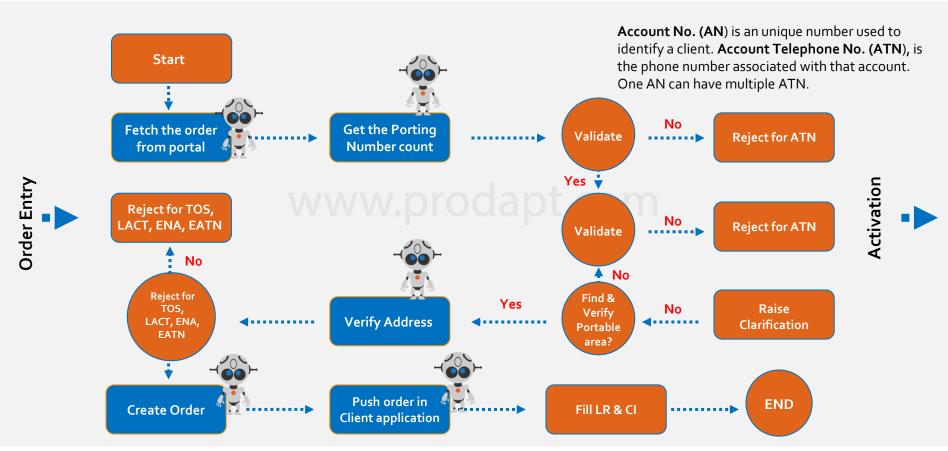
- Order fetching from multiple portals
- Search and data aggregation from various web & Citrix based application
- Automated order entry in legacy application

Prodapt.

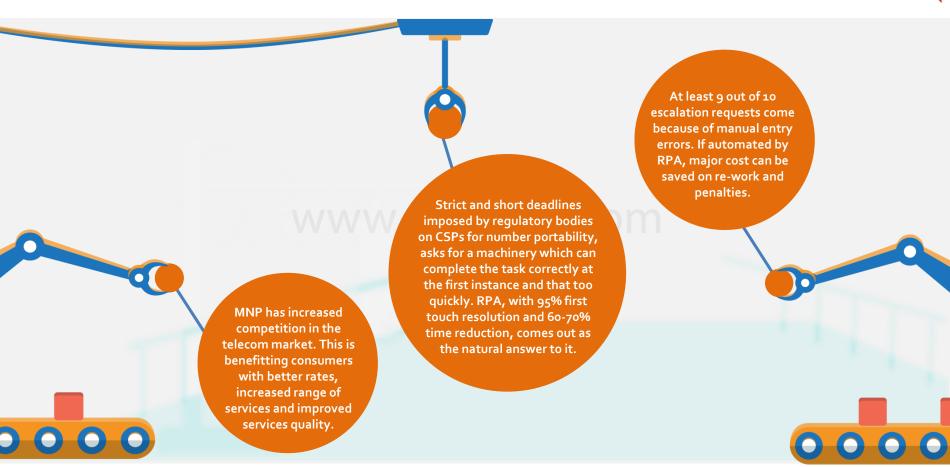
Implementing RPA in Mobile Number Portability



Implementing RPA in POTS line Number Portability



Key Takeaways





USA

Prodapt North America
Tualatin: 7565 SW Mohawk St.,
Ph: +1 503 636 3737

Dallas: 222 W. Las Colinas Blvd., Irving **Ph**: +1 972 201 9009

New York: 1 Bridge Street, Irvington Ph: +1 646 403 8158

UK

Prodapt (UK) Limited Reading: Davidson House, The Forbury, Reading RG1 3EU Ph: +44 (0) 11 8900 1068

THE NETHERLANDS

Prodapt Solutions Europe Amsterdam: Zekeringstraat 17A, 1014 BM Ph: +31 (0) 20 4895711

Prodapt Consulting BV
Rijswijk: De Bruyn Kopsstraat 14
Ph: +31 (0) 70 4140722

SOUTH AFRICA

Prodapt SA (Pty) Ltd. Johannesburg: No. 3, 3rd Avenue, Rivonia Ph: +27 (0) 11 259 4000

INDIA

Prodapt Solutions Pvt. Ltd.

Chennai:

1. Prince Infocity II, OMR Ph: +91 44 4903 3000

2. "Chennai One" SEZ, Thoraipakkam Ph: +91 44 4230 2300

Bangalore: "CareerNet Campus" No. 53, Devarabisana Halli, Outer Ring Road