

intrado[®]

Informed Response.™



National Repository Line Level Database (NRLLDDB)

An Industry created solution

© 2002 Intrado Inc., Longmont, Colorado, USA - All rights reserved. Intrado, triangle beacon design, Informed Response, IntelliBase, and the logo forms of the foregoing, are trademarks and/or service marks of Intrado Inc. in the United States, other countries, or both and may be registered therein.

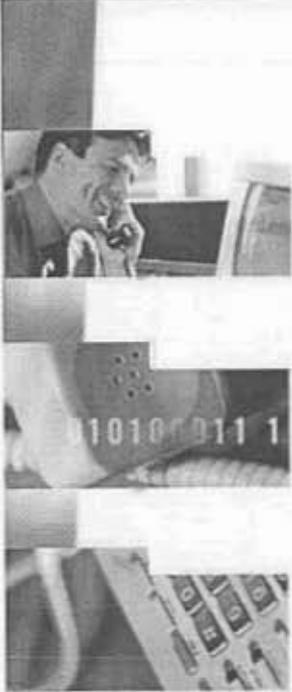
01010011 1101 1 01010111 11001 00 10 11010
100011 1101 1101 10 11001 00 1010
01010011 1101 1 10 1100100 10 11010



What is NRLLDB?

A centralized and maintained database which will contain information specific to each working wireline and wireless telephone number

- Line, switch, and company-level data
- Industry-defined solution
- National in scope



NRLLDB addresses industry issues

- Sharing of necessary data elements from CLEC to IXC
- Local Number Portability (LNP) issues issues related to back office billing
 - Nov 2003: Wireless Number Portability
 - Identification of CLEC ported numbers
- Service notification issues that are experienced by several IXCs and CLECs
- Estimated industry loss of OBF companies of a billion dollars*



Why the industry defined a national solution

Industry Change – Federal Telecommunications Act 1996

- Introduction of ported telephone numbers
- Difficult to track numbers and identify companies and customers for billing toll

Industry Defined Solution

- Alliance for Telecommunications Industry Solutions (ATIS)/Ordering Billing Forum (OBF) develops task force to identify an industry-wide solution
 - NRLLDB was created through 5 years of requirements gathering
 - ATIS/OBF task force recommended Intrado Inc for the NRLLDB after an RFP was issued and responded to by eight vendors
 - NRLLDB solution was listed as a solution to ATIS issues, but contract was not awarded



Central Issue: Line Identification

- There is an inability to identify local carriers line in a competitive local marketplace
 - Churn rates for competitive local carriers are as high as 30%
 - All available information related to ownership today are set up for switching and line validation
 - Most databases specific to back office operations is supplied with CO code assignment data
 - Issues from this oversight have resulted in several end user effecting service
 - End User billing issues
 - Service order delays
 - LNP related 911 errors

Long distance billing

- Pre subscribed Accounts

- There is an inability to bill the end user for 1 + long distance charges incurred. This is because many times the IXC cannot determine which LEC that has the billing relationship with the end user. The IXC needs the appropriate end user billing information from the LEC in order to perform billing.
- Issue 1496 in the ATIS OBF was opened by AT&T to create a national database to resolve unbillable toll issues
- MCI, Sprint, VarTec, and other large IXCs joined AT&T in forming requirements for the data elements required to facilitate the sharing of critical consumer line information for companies that did not have CARE arrangements



Dial Around Toll

- When consumers use IXC services when not pre subscribed to the carrier
 - The IXC must first identify the local carrier that serves the consumer to get information
 - The IXC must determine if the local carrier has a Billing and Collections (B & C) agreement with the local carrier
 - The IXC must obtain Billing Name and Address information to set up an account for future use or for billing if the local carrier does want a B & C arrangement.
- A database would allow this information to be accurate, timely, and accessible



Access Billing disputes – CLEC/IXC

- The IXC cannot identify the lines ported to CLEC and many times disputes arise between the IXC and the CLECs due to confusion in line ownership
- Information available through a shared database would resolve disputed over line ownership
- ATIS/OBF Billing Committee worked issue specific to the inability to identify lines for access billing

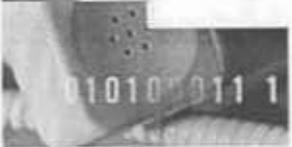


Crucial data elements

Telephone number for local end user

- Operating Company Number (OCN) of serving LEC
- Revenue Accounting Office (RAO) of serving LEC
- Switching information (CLLI code, V/H coordinates)
- Billing Name and Address (BNA) or BNA indicator*
- Class of Service (type of line: Payphone, wireless)
- Line indicators (resale, UNE-P, Ported, etc)
- Intralata and Interlata toll PIC (given to carriers as a Y/N)

*Location of BNA information



Benefits of the NRLLDB

- Database solution helps both High tech carriers and Low tech carriers
- Process for requirements and selection closely monitored and managed by ATIS
- Resolves most line identification issues seen today in the industry
- Supported by major IXCs as a solution to their issues



Summary

- End user and carrier billing issues are problems seen today caused by increased local exchange competition
- Recent filings are result of similar problems seen by many areas of the industry
- NRLLDB was identified and recorded by ATIS forums as a solution to these issues
- Compromise between CLEC and IXC companies on carrier identification issues