

# History of IP address and AS numbers

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Where do you look for history of IP addresses and Autonomous System Numbers (ASNs)? The last three decades have witnessed the emergence and rapid expansion of the Internet. Which raises the question: what do we know about number resources used to build the network? The RIPE NCC, one of five Regional Internet Registries (RIRs), is taking an initiative to gather administrative and operational history of the Internet number resources into a single database.

The idea behind Internet Number Resource Database (INRDB) is to combine all available information in one readily accessible database with a common notion of time. By providing a near-continuous, integrated time series record of many (eventually perhaps, all) aspects of Internet Protocol resources that have been or could be usefully and practically observed and recorded. The goal is to develop just the sort of baseline of "gross evidence" needed to increase confidence, where confidence is due, over time of the individual elements and patterns that make up the Internet.

INRDB is not intended to supplant the other systems but rather to form a common immutable archive that can accommodate any information about Internet number resources over time. Consequently INRDB is not designed to be updated other than by adding new data to the end of the time-line. INRDB is designed to easily allow addition of additional data sets as long as they are about number resources and provide a clear time-line.

## Public Data Sources :

- \* RIS (3 daily table dumps) 2001 - till now
- \* Various SMTP black lists 2005 - till now
- \* Geolocation Database GEOIP@maxmind 2009 - till now.
- \* IANA Allocations 1998 - till now.
- \* RIR Stats Files 2003 - till now.
- \* CAIDA AS Relationship 2004 - till now

Our Resource Explainer (REX) is a one-stop-shop for almost all the information you ever wanted to know about Internet number resources. REX uses INRDB as the back-end.

REX provides you with information about different aspects of a resource:

- \* Which RIR is responsible for it
- \* Who is the holder of the resource
- \* How it was routed on the public Internet
- \* DNS and reverse DNS information
- \* Network activity as seen by some Internet measurements
- \* Relation to blacklists and spamlists
- \* Geolocation

[1] REX <http://albatross.ripe.net/cgi-bin/rex.pl>

[2] <http://labs.ripe.net/content/rex-resource-explainer>