

# IDNIC NIR Operation Update

Prepared by IDNIC

2024

# IDNIC Activities

Manage & Distribute Internet  
Resource (IP & ASN) From APNIC

Serving IDNIC Members

Training & Workshop for  
IDNIC Members and  
Becoming Members



Supporting National  
Internet Development

Cooperating with  
APNIC & NIRs

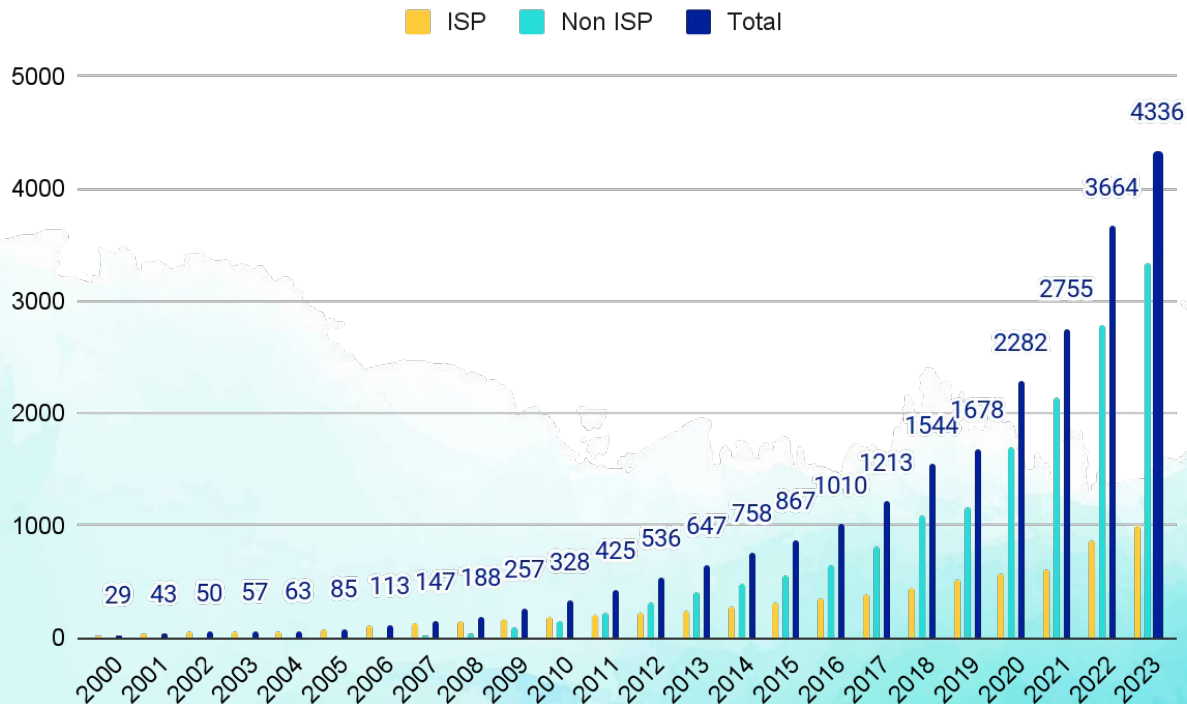


# IP & ASN Delegation





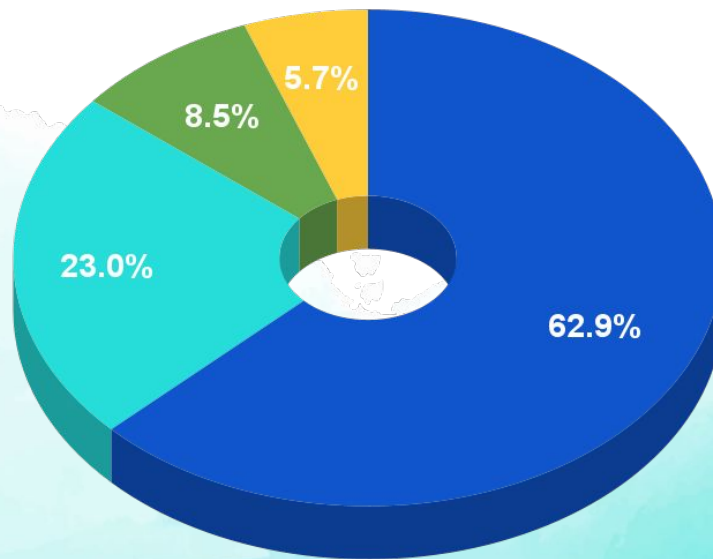
# IDNIC Members



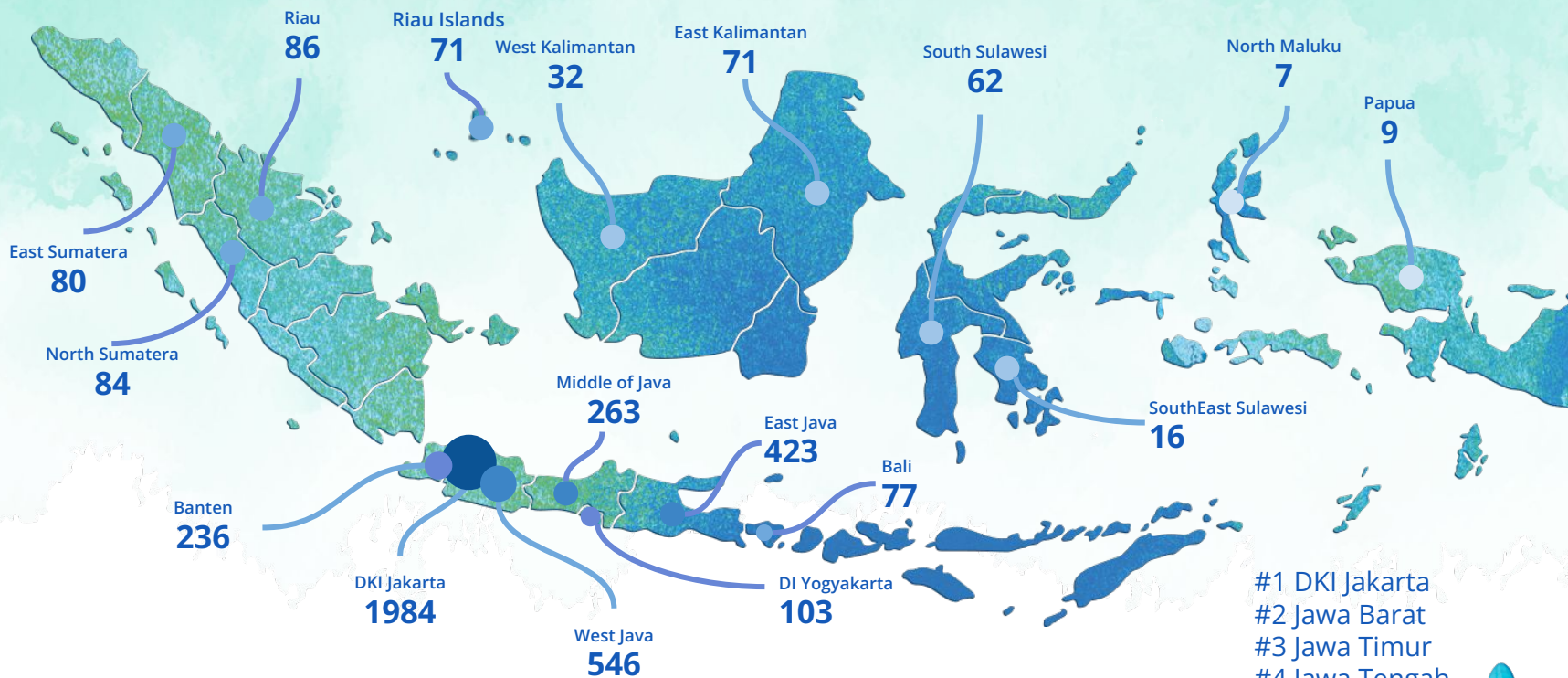


## IDNIC Member Composition

● Corporate & Associations   ● ISP & NAP   ● Government   ● Educations



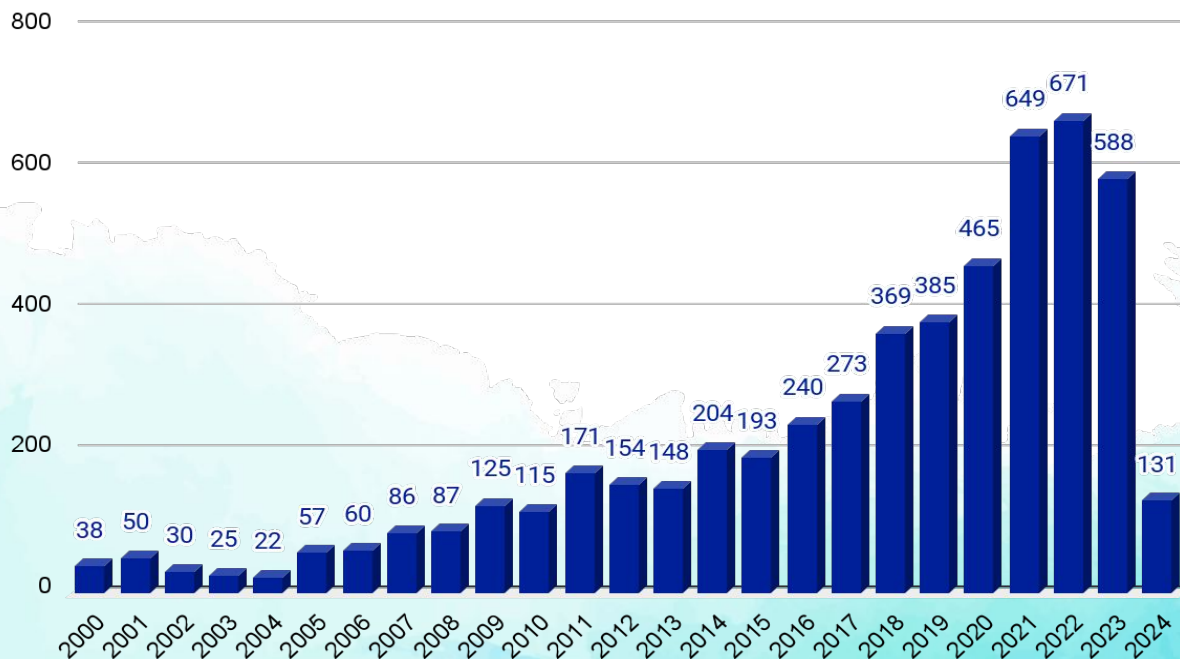
# IDNIC Member Distribution



- #1 DKI Jakarta
- #2 Jawa Barat
- #3 Jawa Timur
- #4 Jawa Tengah
- #5 Banten

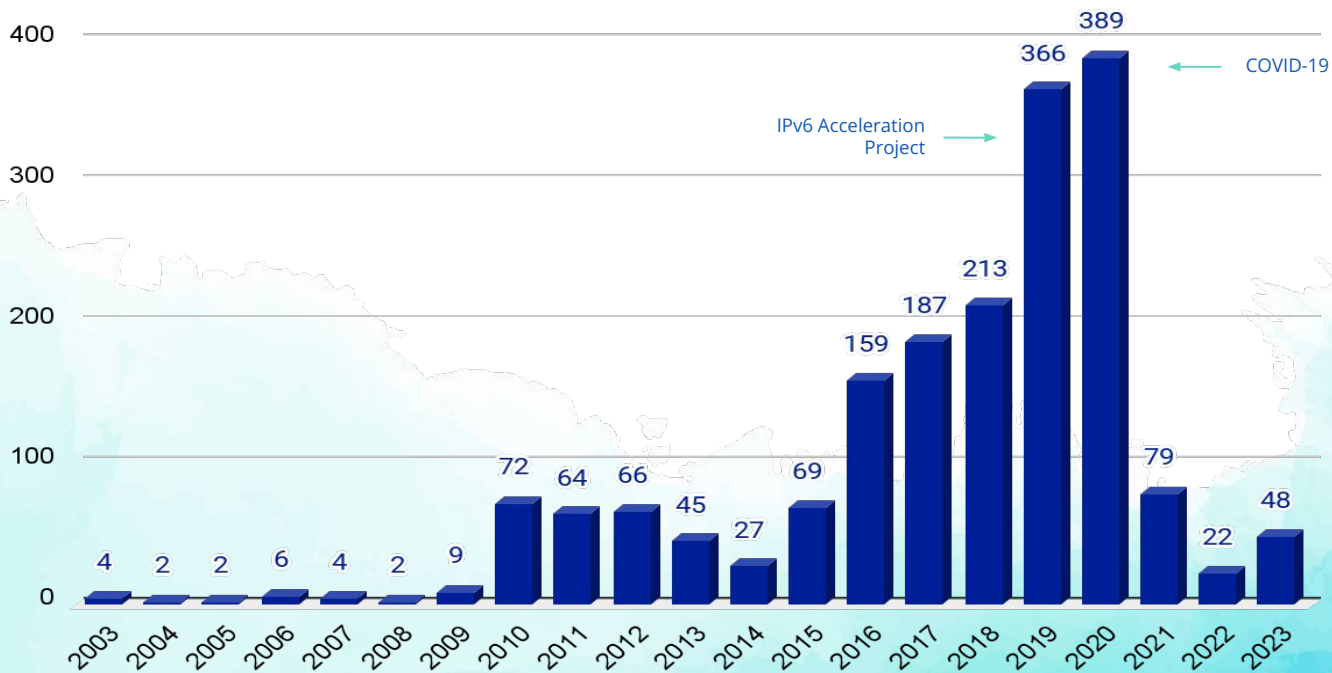


## Number Of IPv4 Delegated Each Year Equals to 78.487 x /24 Block





# Number Of IPv6 Delegated Each Year Equals to 53.216.557 x /48 IPv6 Address

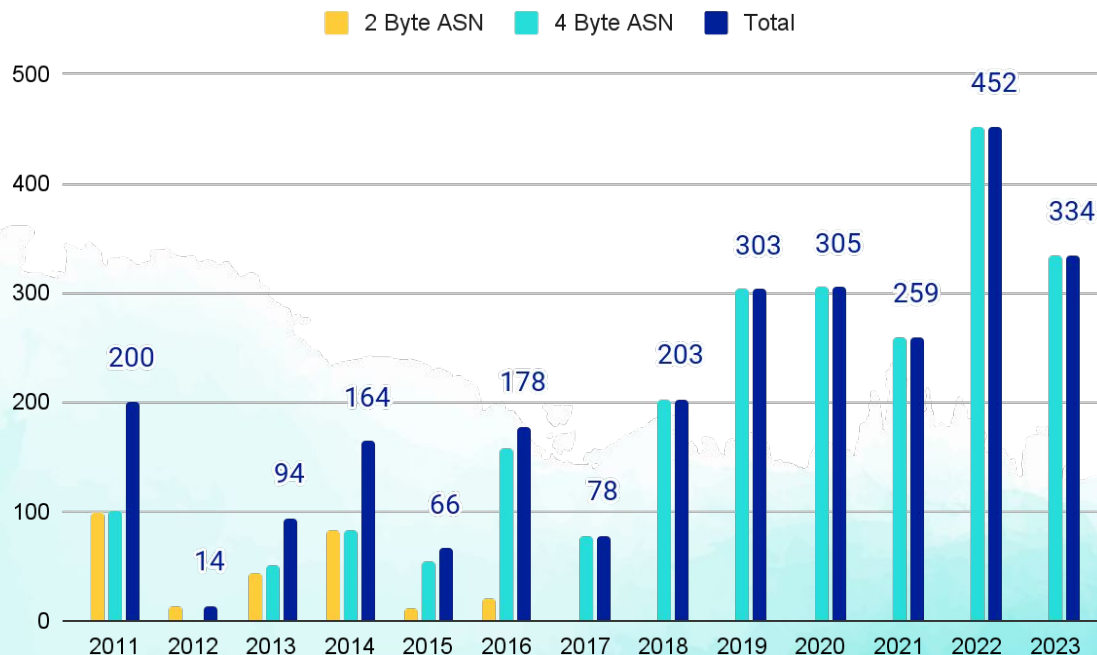






# Number Of ASN Delegated Each Year

## 3.368 ASN Delegation



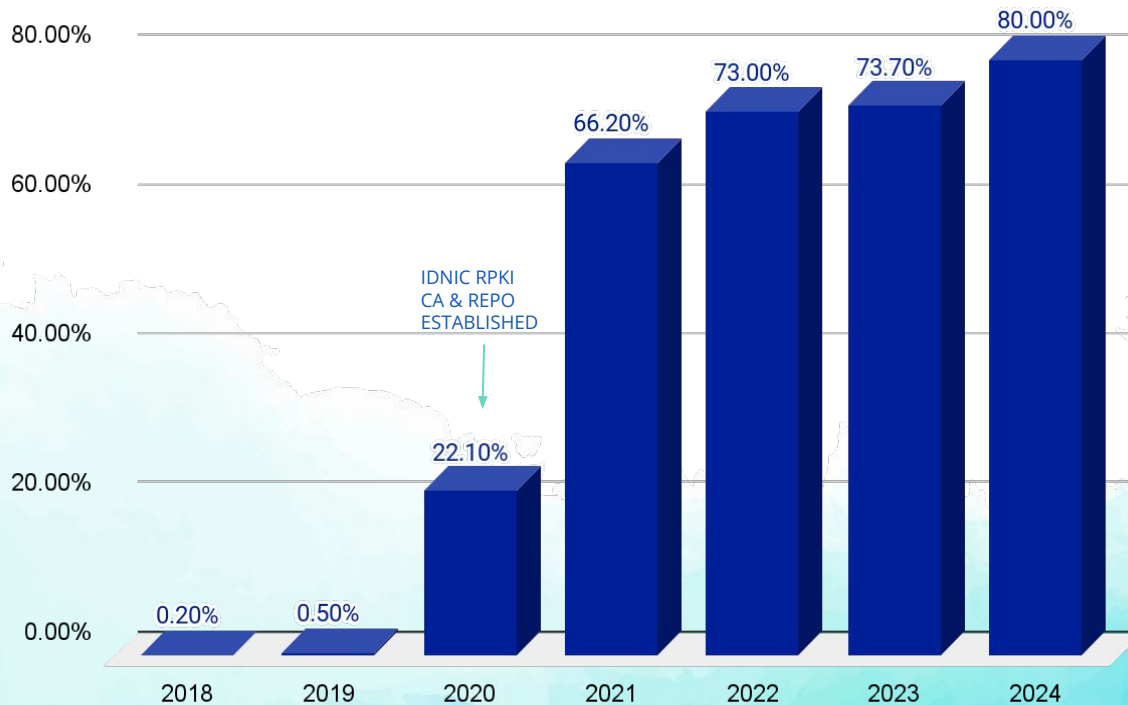


# RPKI ROA Adoption





## Percentage IPv4 Covered By ROA in Indonesia



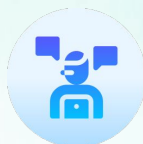
Source: Internal Measurement Tools



# HOW WE APPROACH THAT NUMBER?



Webinar



Direct Contact

- Personal touch on telegram group
- Email blast targeted



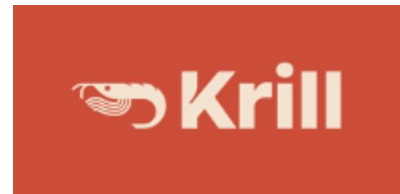
Publication



## IDNIC RPKI Repository Server Stat

Network Peak Traffic  
**345 Mbps**

**97%**  
Traffic is coming  
from another  
country / continent



Median of RSYNC  
**60 RPS**

Median of RRDp  
**241 RPS**

<https://rpki-repo.idnic.net> (IPv4 & IPv6)

Currently located in Jakarta, ID  
IDNIC plan to expand it to another region.





# IDNIC Product Development





## IDNIC ROA & ROV Check



RPKI DROP Invalid check is useful to measure RPKI effectiveness from test network.

# IDNIC ROV Dashboard

A tools to check RPKI & ROV validation. It has function to check whether a network is dropping RPKI invalid or not and validating advertisement against ROA.

<https://rpki.idnic.net>

# DROP INVALID Check

The screenshot shows the IDNIC ROV Dashboard interface. At the top, there are two tabs: "ROV Check" (selected) and "Drop Invalid Test". Below the tabs, the main content area displays "RPKI ROV Drop BGP Invalid Test" and a sub-header "Check if you have filtered Invalid BGP route with RPKI ROV". A large green button with a lock icon and the text "RPKI VALID" is prominently displayed. Below this button, a message states: "Your ISP IDNIC AS63515 have implemented Drop BGP RPKI Invalid, you're secured".



## IDNIC RBL



IDNIC RBL is useful to block suspicious Indonesian IP Address.

# IDNIC RBL/RWL

A tools to check IDNIC IP address reputation in Indonesian Local Exchanges, also used for DNSBL (rbl.idnic.net). There is also feature to request whitelisting.

<https://rbl.idnic.net>

## RBL Check

🔍 **Black List Lookup**      📧 **White List**

Enter IP Address

**Reputation Check**

IP Address **203.119.13.0** is listed **2** times on blacklist

**SPAM**  
Most recent detection was: 2023-07-10 12:12:31

**DDOS**  
Most recent detection was: 2023-07-22 10:19:20





# IDNIC RBL : Whitelisting Feature

🔍 Black List Lookup

📄 White List

## IDNIC IP Reputation System

### Removal Request

To request whitelist please enter your IP, email, phone, and reason why you requested for a whitelist. RBL is automatically recorded. Whitelist request without sufficient information will be rejected.

All request will be validated minimum after 24 hours submitting the application.

IP Address

e.g. 203.119.13.0

Email Address

e.g. someone@idnic.net

Phone Number

e.g. +62221 7781992

Reason for Removal

Write your reason

Request Whitelist

1. IDNIC RBL Blacklisting Indonesian IP Address based on Abuse Report coming from IDNIC CERT
2. Whitelist request is approved when there is no report coming into IDNIC CERT

## myIDNIC



Versatile  
Online  
Portal for:

Whois  
Update &  
Tools

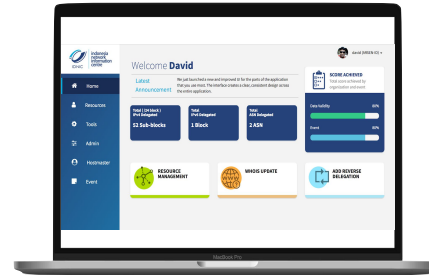
Manage  
IPv4, IPv6,  
and ASN

Trouble  
Ticket

ROA &  
RPKI  
Requests

New

RDNS



## Preview myIDNIC

New

# NIR API

In December 2023, myIDNIC users reach 2291. We developed two new feature this year: RDNS API and NIR API Integration.

## myIDNIC

A member portal that is useful for managing Internet resources, updating contact information, and receiving IDNIC services online.



## Why we need NIR API?

1. Current delegation process is done manually
2. IPv4 waiting list is increasing
3. Data inconsistencies between internal system & myAPNIC
4. Whois inconsistencies with member data



# Why we need NIR API?

Current delegation process is done manually

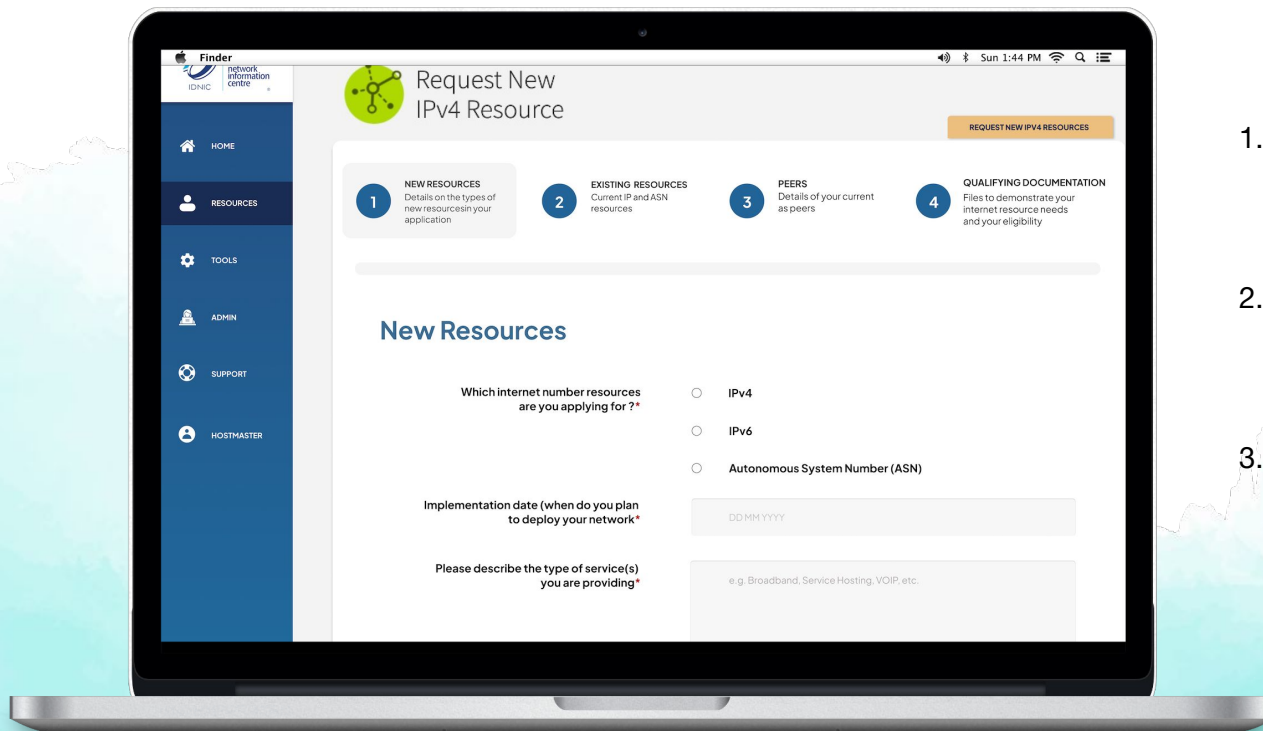
IPv4 waiting list is increasing

Data inconsistencies between internal system & MyAPNIC

Whois inconsistencies with member data



# myIDNIC NIR API Integration



1. Redesign resource application form to better understand applicant needs
2. Automate delegation process and removing human error when delegating resources.
3. Remove data inconsistency between internal system





Asosiasi  
Penyelenggara  
Jasa  
Internet  
Indonesia

INDONESIA INTERNET SERVICE PROVIDER ASSOCIATION



indonesia  
network  
information  
centre

IDNIC

## Operational Hours

09.00-17.00 WIB

## Address

Asosiasi Penyelenggara Jasa Internet Indonesia  
Cyber Building 6th floor Jl. Kuningan Barat No 8  
Jakarta 12710, Indonesia

## Email

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hostmaster@idnic.net

## Telephone

(+62) 21 5296 0634

## Fax

(+62) 21 5296 0635

## Social Media

Facebook : IDNIC | Instagram : @idnic.id | Telegram : @infoidnicajii

# www.idnic.net

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