AFRINIC WEBINAR SERIES

The AFRINIC Ecosystem:
An Introduction to AFRINIC

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AFRINIC
The Internet Numbers Registry for Africa

https://twitter.com/afrinic
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AGENDA

- Ecosystem

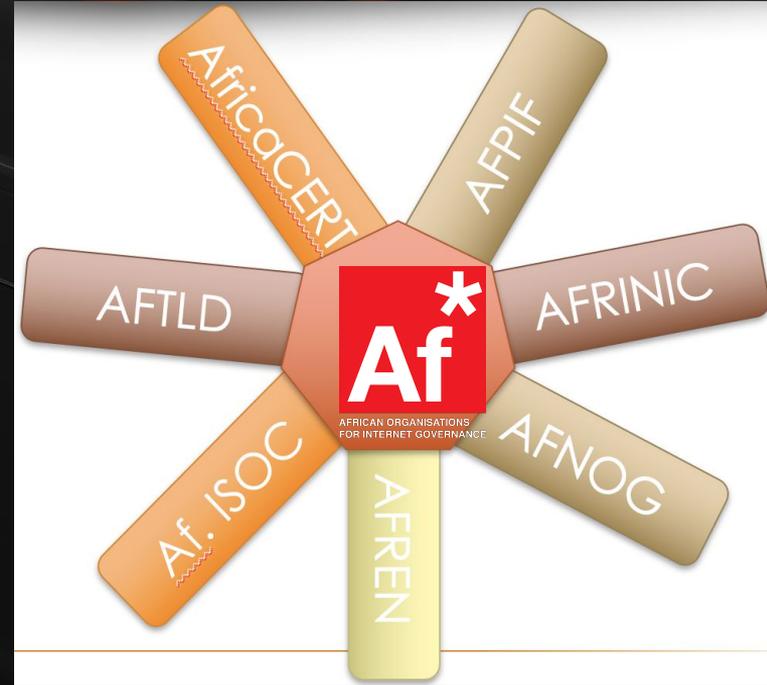- Services

- Governance

- Internet Development Programmes

AFRINIC Ecosystem

AFRINIC stakeholders
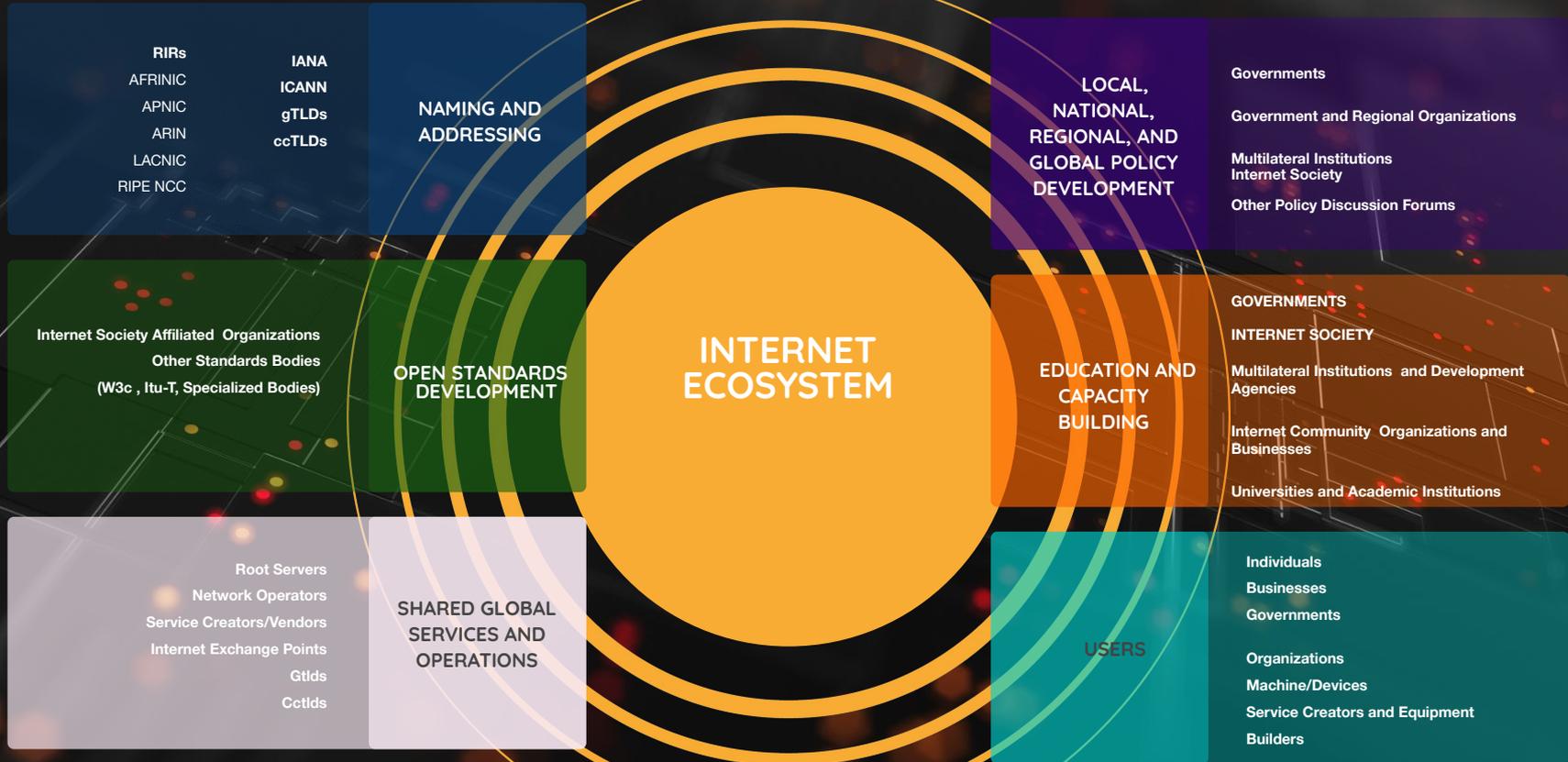
Af* Organisations

Af* are organisations collaboratively working for a better Internet in Africa. These organisations include the various sectors of the Internet such as: Internet Numbers, Policy, Content and Names, Research, Infrastructure, Capacity building, and Security.

Global Internet Ecosystem

NAMING AND ADDRESSING

RIRs
AFRINIC
APNIC
ARIN
LACNIC
RIPE NCC

IANA
ICANN
gTLDs
ccTLDs

OPEN STANDARDS DEVELOPMENT

Internet Society Affiliated Organizations
Other Standards Bodies
(W3c , Itu-T, Specialized Bodies)

SHARED GLOBAL SERVICES AND OPERATIONS

Root Servers
Network Operators
Service Creators/Vendors
Internet Exchange Points
Gtlds
Cctlds

INTERNET ECOSYSTEM

LOCAL, NATIONAL, REGIONAL, AND GLOBAL POLICY DEVELOPMENT

Governments

Government and Regional Organizations

Multilateral Institutions
Internet Society

Other Policy Discussion Forums

EDUCATION AND CAPACITY BUILDING

GOVERNMENTS

INTERNET SOCIETY

Multilateral Institutions and Development Agencies

Internet Community Organizations and Businesses

Universities and Academic Institutions

USERS

Individuals

Businesses

Governments

Organizations

Machine/Devices

Service Creators and Equipment

Builders

Why AFRINIC?

- Need for a registry to address IP number resources needs of the African continent

- Provide "proximity" service to African Local Operators and Internet Users

- Provide an environment to define Policies that are relevant to the African realities.

- Increase training and capacity building in the region on Internet IP technology and usage.

- Contribute to Internet affordability and accessibility.

- Facilitate the deployment of Internet critical infrastructures.

The RIR system before AFRINIC

The RIR system today

AFRINIC
Services

General Information

Our Vision
A secure and accessible Internet for sustainable digital growth in Africa

Our Mission

To serve the African Internet community by delivering efficient services in a global multi-stakeholder environment.

5th RIR

Established in 2005; HQ in Mauritius

Serving **55 economies**

In Africa and Indian Ocean

Operating since

2005

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Staff

IP Resources Management

Allocation/ assignments

IPv4, IPv6 & ASN

(free IPv6 if IPv4 is already issued and Discounts for Universities and IPv6 only members)

Registration of

IP resource usage through assignments and sub-allocation

Providing

reverse DNS domain delegation

Support for

resource transfers

Support for

resource policies compliance

Provision of

resource delegation statistics through http://ftp.afrinic.net/stats/afrinic/

Routing Security & RPKI

IRR

Internet Routing Registry

- Create Route(6) Objects, AS-SET, Route-set ...

- "route" objects ← link between ASN and IP block
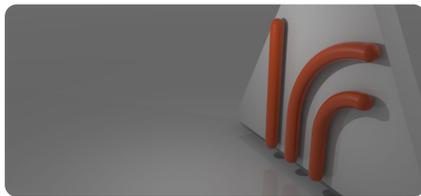
RPKI

Resource Public Key Infrastructure

- Create Route Origin Authorisation (ROA)

- Revoke ROA

- Hosted Certificate Authority (CA)

DNSSEC

Domain Name System Security Extensions

Sign Domain Name System (DNS) data using digital signatures

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Member Service Tools - Member Portal - My.AFRINIC

View

membership information and status

View

billing information and status

View and Update

contact information

Manage

allocated/assigned Internet Number resources

Manage

Route(6) objects

Manage

RPKI assets

Manage

Reverse DNS

Access

WHOIS services

Online IPv6 Training & Deployment

Training

Self-paced

https://learn.afrinic.net/events

Live-Events

https://academy.afrinic.net/

Certify

Get international certification

https://certi6.io/en/

Deploy

IPv6 Deployment Helpdesk

bit.ly/6deployEN

Deployathons

learn.afrinic.net/events

AFRINIC
Governance

AFRINIC GOVERNANCE OVERVIEW

Board of Directors (9 Seats)

Council of Elders advice

Northern Africa	Western Africa	Indian Ocean	Central Africa	Southern Africa	Eastern Africa	Non Regional Africa	Non Regional Africa	CEO
Seat 1	Seat 2	Seat 3	Seat 4	Seat 5	Seat 6	Seat 7	Seat 8	Seat 9

BoD committees:

- Audit
- Finance
- Remuneration

AFRINIC Members elect

Nomination Committee

Election Committee (Staff)

Staff

AFRINIC Community

AFRINIC Bylaws (Constitution)

Governance Committee advises
the AFRINIC Board, AFRINIC Membership, and the community,
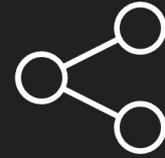**on matters of corporate governance**

Importance of **your participation** in AFRINIC Governance

Contribute in discussions on Internet development in Africa

Bring the African realities to the table

Make your voice count

Be a speaker, share about your achievements or projects

Expand your global networks & learn

How you can take part in AFRINIC activities

Become an
AFRINIC Community Member

Attend
AFRINIC Meetings

Elect members
of the BoD, Committees & Working Groups

Contribute to discussions on the
AFRINIC Mailing list

Sponsor
AFRINIC initiatives

Partner
with AFRINIC on common projects

Why should you care about the PDP?

1. Influence over policy decisions: RIR members shape policies on internet number resources by proposing, commenting, and voting through the Policy Development Process

2.Transparency: The PDP is designed to be an open and transparent process, allowing members to track the progress of policy proposals and understand how decisions are made.

3.Adapting to changing technology and user needs: The PDP allows RIRs to update policies to match evolving technology and user needs, incorporating new best practices and standards.

4.Ensuring fair and equitable distribution of resources: The PDP is essential for ensuring that Internet number resources are distributed fairly and equitably among RIR members, without preference or bias.

AFRINIC Community Mailing Lists

Mailing List	Email contact
Resource Policy Discussion (RPD) List	rpd@afrinic.net
Community Discussion List	community-discuss@afrinic.net
AFRINIC Announce List	announce@afrinic.net
Members Discuss List	member-discuss@afrinic.net

How to Register to the AFRINIC Mailing Lists?

There are two ways:

Fill in the online form
which by clicking any list at:

https://lists.afrinic.net/mailman

By email
you can send a request to

list_name-request@afrinic.net

with the word
Subscribe
as the subject

Internet Development Programmes

AFRINIC is committed to developing Africa's Internet and unlocking the region's full potential in ICT. To achieve it, AFRINIC is promoting investment in Internet development in Africa through 6 programmes you can plug into for a sustained digital development in your region and in Africa.
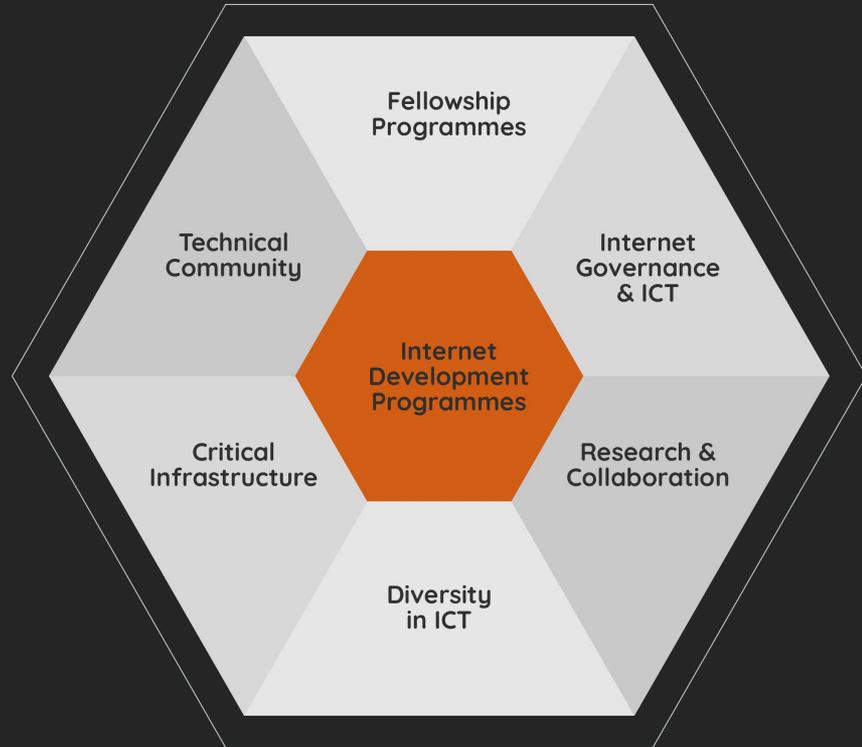
For more information about AFRINIC IDPs please visit https://www.afrinic.net/participate/idp

1.AFRINIC Fellowship Program

The AFRINIC Fellowship program creates a network of African ambassadors promoting our mission countrywide. It fosters potential leaders by offering citizens from various backgrounds the opportunity to participate in our policy meetings and initiatives. AFRINIC has granted 230 fellows from 50 African countries the opportunity to attend our meetings across the continent in the past 8 years.

2.AFRINIC Technical Community Development Program

Building technical communities is vital for advancing the Internet in Africa, as they ensure stability, security, and accessibility for all. AFRINIC partners with regional and national technical groups, including AfNOG, sdNOG, BurundiNOG, ZANOG, and more, providing resources to support their growth and skill development.

3.AFRINIC Internet Governance and ICT Initiatives Development Program

This program empowers Internet Governance African stakeholders to participate in global discussions. AFRINIC supports national and regional forums, fostering open and inclusive dialogue.

Over the past decade, AFRINIC participated in over 40 events, conducting workshops and sharing the AFRINIC Governance Model and IP distributions.

4.African Research Collaboration Program

AFRINIC partners with educational institutions to conduct technical and policy-based research in Africa, empowering network operators and end-users to make informed decisions in the unique African Internet landscape.

A collaboration with the University of Cape Town, South Africa, on the ARDA project, implemented with ISOC and AF-IX, is an example of such partnerships.

5.AFRINIC Critical Infrastructure Development Program

The AFRINIC program expands Internet infrastructure in Africa, by providing financial assistance and technical expertise for critical infrastructure like IXPs and DNS. This initiative aims to create a dependable, secure Internet for Africans and promote digital development.

We've supported Guinée-IXP, RINEX, and CIVIX and more others.

The Diversity in ICT Program

Our Diversity Program bridges the digital divide and leverages everyone's potential to access, use Internet technologies by promoting and advocating for greater diversity and inclusion in ICT development across the continent.

AFRINIC partners with AfCHIX,RIFEN, Halley Movement, among others on that matter.

What did we learn ?

- AFRINIC Internet Ecosystem

- AFRINIC Services

- AFRINIC Governance

- AFRINIC Internet Development Programmes

While AFRINIC has made progress, there is still much work to be done, and we count on your support for AFRINIC to fulfill its purpose of improving business and people's lives in Africa through the use of the Internet.

Questions?

Thank You For Your Support and Attention.

Should you have any question in this regard,
please feel free to contact us

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