Numbers and Things

NARALO Oct 11, 2021

Ron da Silva

@ron2twit

NTG

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Happy Canadian Thanksgiving

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What Am I Doing Here?

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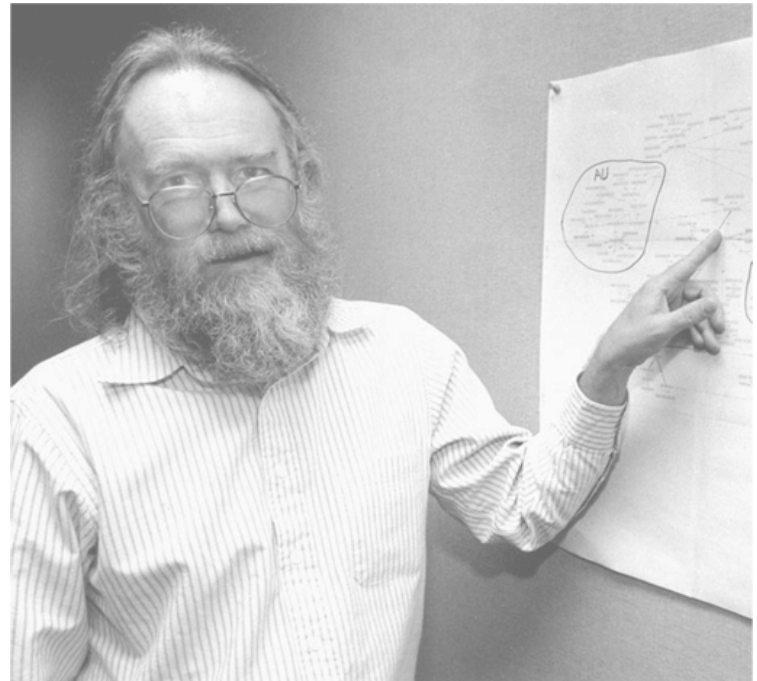# What the Heck is an RIR?

Back in the Day...
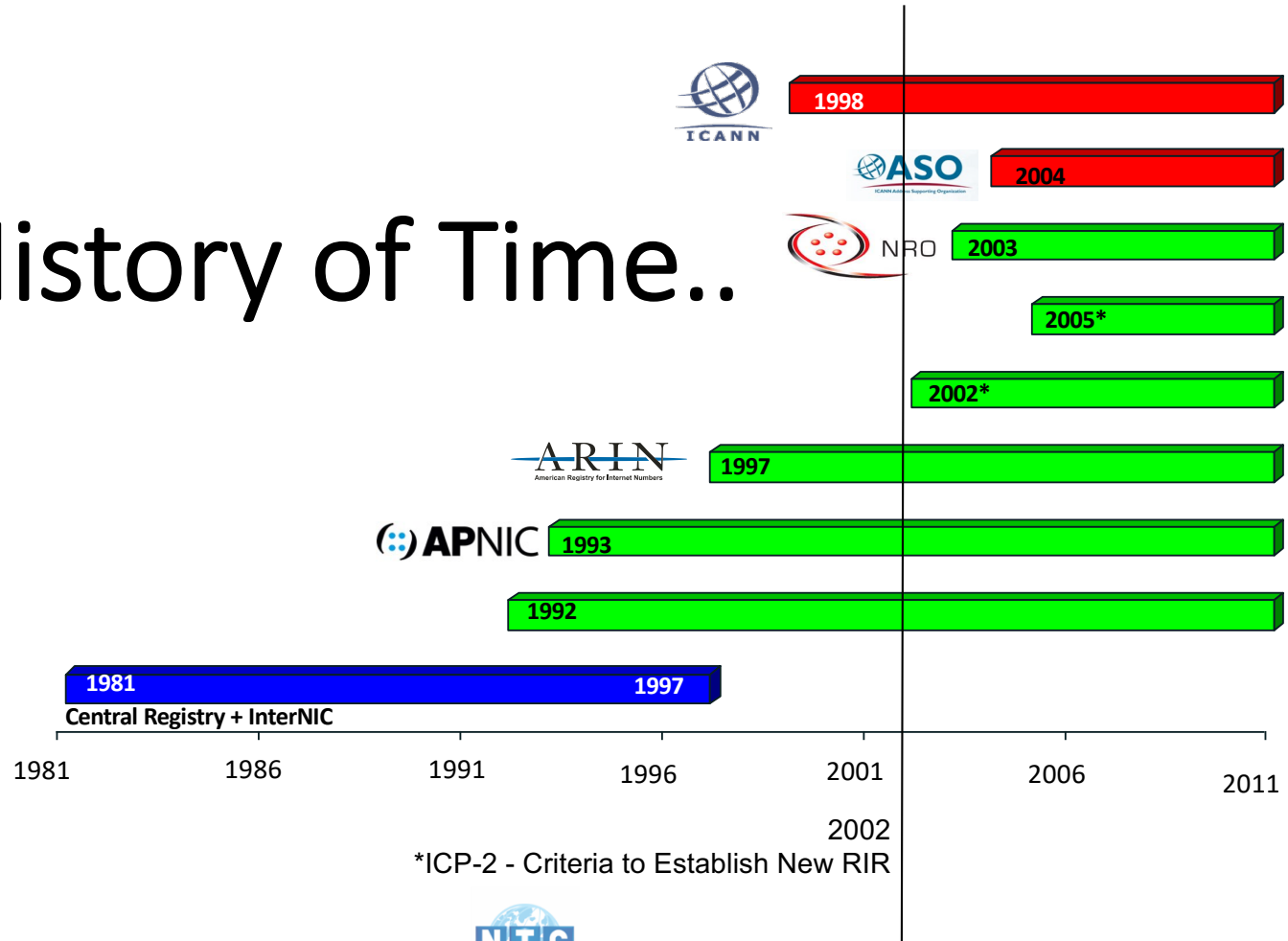
- RFC820 (January 1983), and many others:
    - https://datatracker.ietf.org/doc/html/rfc820
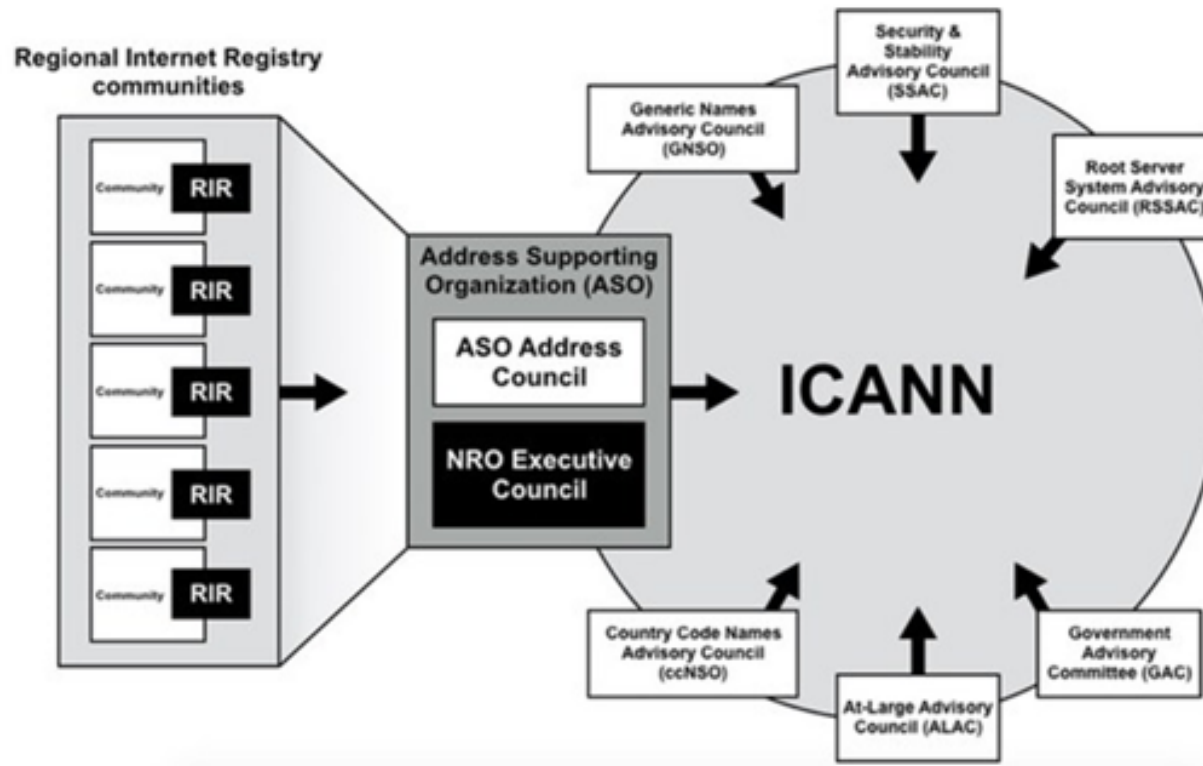   - Please contact Jon to receive a number assignment...
- RFC1174(August 1990)
    - IAB Recommended Policy on Distributing Internet Identifier Assignment
- RFC1366(October 1992)
    - Guidelines for Management of IP Address Space

A Brief History of Time..

	ICANN	1998
	ASO	2004
	NRO	2003
		2005*
		2002*
	ARIN	1997
	APNIC	1993
		1992
	Central Registry + InterNIC	1981 — 1997

1981   1986   1991   1996   2001   2006   2011

2002
*ICP-2 - Criteria to Establish New RIR

This Thing Called the NRO

AC Member	Region	Term Start	Term End
Wafa Dahmani Zaafouri*	AFRINIC	Jan 2021	31 Dec 2021
Mike Silber (Vice *Chair*)	AFRINIC	Jan 2020	31 Dec 2022
Saul Stein	AFRINIC	Jan 2021	31 Dec 2023
Shubham Saran	APNIC	Jan 2021	31 Dec 2022
Nicole Chan*	APNIC	Jan 2021	31 Dec 2021
Aftab Siddiqui	APNIC	Jan 2020	31 Dec 2021
Kevin Blumberg* (*Chair*)	ARIN	Jan 2021	31 Dec 2023
Martin Hannigan	ARIN	Jan 2020	31 Dec 2022
Louis Lee	ARIN	Jan 2019	31 Dec 2021
Esteban Lescano*	LACNIC	1 April 2021	31 Mar 2022
Ricardo Patara	LACNIC	Jan 2019	31 Dec 2021
Jorge Villa	LACNIC	Jan 2021	31 Dec 2023
Hervé Clément* (Vice *Chair*)	RIPE NCC	Jan 2021	31 Dec 2023
Nurani Nimpuno	RIPE NCC	Jan 2019	31 Dec 2021
James Kennedy	RIPE NCC	Jun 2021	31 Dec 2022

ASO Does What??

Hola IANA !

IANA IPv4 Address Space Registry

Last Updated
2017-09-15

Registration Procedure(s)
Allocations to RIRs are made in line with the Global Policy published at [http://www.icann.org/en/resources/policy/global-addressing].
All other assignments require IETF Review.

Description
The allocation of Internet Protocol version 4 (IPv4) address space to various registries is listed here. Originally, all the IPv4 address spaces was managed directly by the IANA. Later parts of the address space were allocated to various other registries to manage for particular purposes or regional areas of the world. RFC 1466 [RFC1466] documents most of these allocations.

Reference
[RFC7249]

Available Formats
CSV   XML   HTML   Plain text

Prefix	Designation	Date	WHOIS	RDAP	Status [1]	Note
000/8	IANA - Local Identification	1981-09			RESERVED	[2]
001/8	APNIC	2010-01	whois.apnic.net	https://rdap.apnic.net/	ALLOCATED	
002/8	RIPE NCC	2009-09	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED	
003/8	General Electric Company	1994-05	whois.arin.net	https://rdap.arin.net/registry http://rdap.arin.net/registry	LEGACY	
004/8	Level 3 Communications, Inc.	1992-12	whois.arin.net	https://rdap.arin.net/registry http://rdap.arin.net/registry	LEGACY	
005/8	RIPE NCC	2010-11	whois.ripe.net	https://rdap.db.ripe.net/	ALLOCATED	
006/8	Army Information Systems Center	1994-02	whois.arin.net	https://rdap.arin.net/registry http://rdap.arin.net/registry	LEGACY	
007/8	Administered by ARIN	1995-04	whois.arin.net	https://rdap.arin.net/registry	LEGACY	

Global Policies

Transfer Market!

32-Byte ASN

NIR

Needs Based

IPv4

IPv6 ISPs

Legacy Space

End Users

LIR

Pause

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AfriNIC is
Happening

"AFRINIC Board of Directors Announces Departure of AFRINIC CEO Adiel A. Akplogan"
AfriNIC, September 17th, 2014

"Alan Barrett Appointed as AFRINIC CEO"
ICANN, April 7th, 2015

"South African Internet legend Alan Barrett steps aside as AFRINIC CEO"
MyBroadband, April 30th, 2019

"Africa's internet body hit with sexual harassment cover-up claims"
The Register, May 8th, 2018

"The Great $50M African IP Address Heist"
KrebsonSecurity, December 11th, 2019

"Mr. Eddy Mabano Kayihura has been selected to be next CEO"
AfriNIC, October 25th, 2019

"Africa internet riches plundered, contested by China broker"
ABC News, October 1st, 2021

ICANN

...insuring the stable and secure operation of the Internet's unique identifier systems.

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