



Internet Protocol (IP) Addressing review and upgrades



Presented by Fernando A. Cassó Rodríguez
Radar Systems Division Manager
Dominican Republic

AMHS and IP

AFTN — x.25 — AFTN

AMHS — TCP/IP — AMHS

AMHS IP Plan

- * Presented in 2010.
- * Establishes addresses for hosts (Part I) and for routers (Part II).
- * 10.31.224.0/19 address used for routers: 8192 potentially available addresses.

Example of Plan

Net	No.	Subnet	Admin & local host	Via	LINKS	IPv4 address
	1	10.31.224.0/30	Anguilla	E/CAR	Anguilla	10 . 31 . 224 . 0/30
					Trinidad & Tobago (Piarco)	10 . 31 . 224 . 1/30
					Vacant	10 . 31 . 224 . 2/30
					Vacant	10 . 31 . 224 . 3/30
	2	10.31.224.4/30	Antigua	E/CAR	Antigua	10 . 31 . 224 . 4/30
					Trinidad & Tobago (Piarco)	10 . 31 . 224 . 5/30
					Vacant	10 . 31 . 224 . 6/30
					vacant	10 . 31 . 224 . 7/30
	3	10.31.224.8/30	Aruba	MEVA	Aruba	10 . 31 . 224 . 8/30
					Jamaica (Kingston)	10 . 31 . 224 . 9/30
					Aruba	10 . 31 . 224 . 10/30
					Curacao	10 . 31 . 224 . 11/30
4	10.31.224.12/30	Bahamas/Nassau	MEVA	Bahamas/Nassau	10 . 31 . 224 . 12/30	
				Haiti(Port-au-Prince)	10 . 31 . 224 . 13/30	
				Bahamas/Nassau	10 . 31 . 224 . 14/30	
				United States of America(Miami)	10 . 31 . 224 . 15/30	

Issues

* Unusable addresses

10.31.224.0/30	UNUSABLE : Network Address
10.31.224.1/30	Usable
10.31.224.2/30	Usable
10.31.224.3/30	UNUSABLE : Broadcast Address

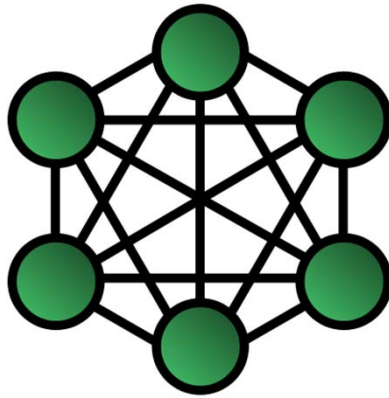
Issues

* Redundant links

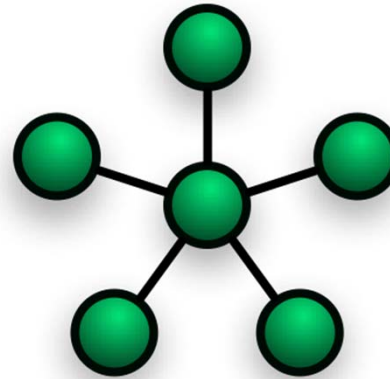
10.31.224.52/30	Curaçao	Curaçao	10.31.224.52/30
		Aruba	10.31.224.53/30
		Curaçao	10.31.224.54/30
		Dominican Republic (Santo Domingo)	10.31.224.55/30
...
10.31.224.68/30	Dominican Republic / Santo Domingo	Dominican Republic (Santo Domingo)	10.31.224.68/30
		Curaçao	10.31.224.69/30
		Dominican Republic (Santo Domingo)	10.31.224.70/30
		United States of America (Miami)	10.31.224.71/30

Issues

* Not in agreement with reality



Proposed



Current

Proposals

- ✓ Correct the unusable address and redundant links
- ✓ Study the current network to add the links that are actually there right now.
- * Have a defined body responsible for checking requirements and assigning new addresses.

Questions?

Fernando A. Cassó Rodríguez
fernando.casso@idac.gov.do