



INTERNATIONAL CIVIL AVIATION ORGANIZATION

INTERFACE CONTROL DOCUMENT FOR ATN IPS (IPv4) ROUTER

VERSION 1.1

EXECUTIVE SUMMARY

The Aeronautical Telecommunication Network (ATN) is a global telecommunications network being established to provide digital communications between ICAO member States.

This Interface Control Document (ICD) provides Internet Protocol Suite (IPS) router guidelines for the routers that form nodes of the ATN backbone to ensure interoperability between States

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1.0 INTRODUCTION

This document provides ATN IPS router ICD guidelines for the routers that form nodes of the network Backbone. This ICD addresses the Network Interface and Internet layers of the ATN IPS router using the TCP/IP model.

1.1 Purpose and Scope

The general requirements for the ATN IPS router cover the lower two layers of the TCP/IP four-layer model. The TCP/IP model defines a four-layer network model as shown in Figure 1-1. Only the lower two layers are covered under this document.

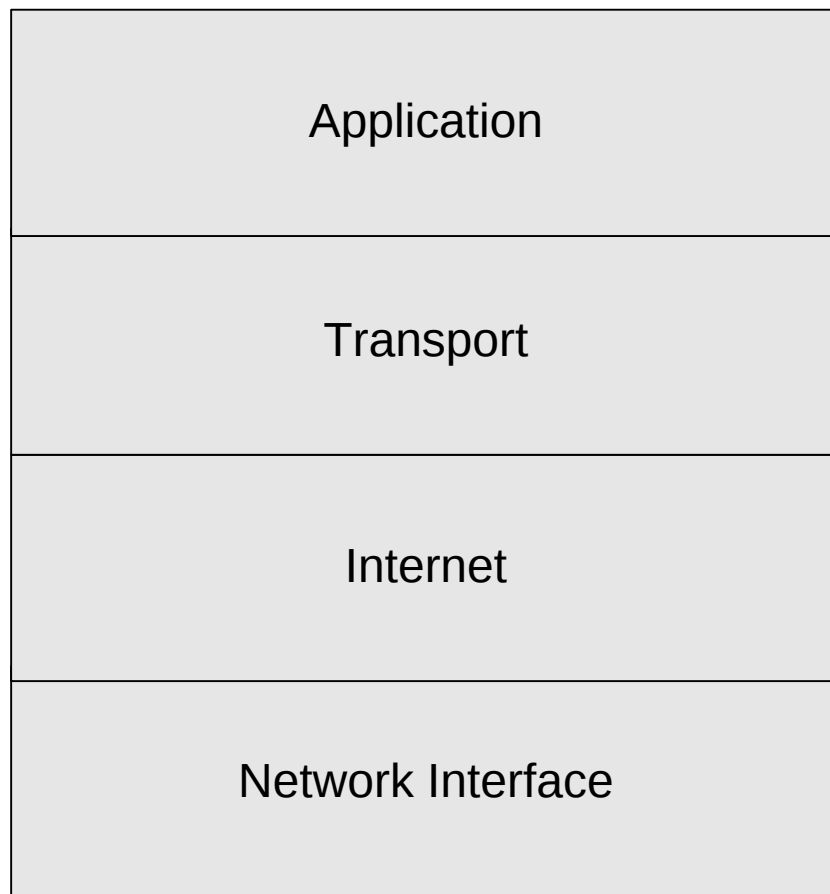


Figure 1-1 TCP/IP Layer Model

1.2 Document Structure

This document is structured as follows:

- Section 1, Introduction, summarizes the contents of this document and reference documents.

- Section 2, Internet Protocol Addressing, specifies the Internet Protocol (IP) address allocation.
- Section 3, Interface Design Characteristics, provides the layer 1 and 2 requirements for interface between ATN IPS routers.

1.3 Applicable Documents

The following documents form a part of this ICD to the extent specified herein. In the event of a conflict between the documents referenced herein and the contents of this ICD, the contents of this ICD shall be the superseding requirements

1.3.1 Internet Standards

RFC 791 Internet Protocol, September 1981
RFC 792 Internet Control Message Protocol, September 1981, as updated by RFCs 950, 4884, and 6633
RFC 793 Transmission Control Protocol, September 1981, as updated by RFC 3168
RFC 796 Address Mappings, September 1981
RFC 826 An Ethernet Address Resolution Protocol, November 1982
RFC 894 Standard for the Transmission of IP Datagrams over Ethernet Networks, April 1984
RFC 2427 Multiprotocol Interconnect over Frame Relay (FR), September 1998
RFC 950 Internet Standard Subnetting Procedure, August 1985
RFC 1812 Requirements for IP Version 4 Routers, June 1995, as updated by RFC 2644 and RFC 6633
RFC 2328 Open Shortest Path First (OSPF) Version 2, April 1998
RFC 2439 BGP Route Flap Damping, November 1998
RFC 2644 Changing the Default for Directed Broadcasts in Routers, August 1999
RFC 3168 The Addition of Explicit Congestion Notification (ECN) to IP, September 2001
RFC 4271 A Border Gateway Protocol 4 (BGP-4), January 2001, as updated by RFC 6286
RFC 4884 Extended ICMP to Support Multi-Part Messages, April 2007
RFC 6286 Autonomous-System-Wide Unique BGP Identifier for BGP-4, June 2011
RFC 6633 Deprecation of ICMP Source Quench Messages, May 2012

1.3.2 ICAO Documents

ATNICG/5-WP/11 11 “Proposed Asia/Pacific IPv4 Address Planning” presented and accepted at The Fifth Meeting of Aeronautical Telecommunication Network (ATN) Implementation Co-ordination Group of APANPIRG (ATNICG/5) in Kuala Lumpur, Malaysia, on 31 May – 4 June 2010

2.0 INTERNET PROTOCOL ADDRESSING

Network addressing should be in accordance with RFC 796 for IPv4 implementations. Addresses shall conform to ICAO Asia/Pacific and CAR/SAM Regional IPv4 Address Planning. The address table is included in Appendix B.

3.0 INTERFACE DESIGN CHARACTERISTICS

This section provides the general functional and physical design characteristics for the interfacing communication devices.

3.1 General Characteristics

The ATN IPS routers are Commercial off the Shelf (COTS) routers that can be easily procured and implemented. The use of these routers will tremendously decrease the time of deployment and final implementation of the ATN.

3.2 Functional Design Characteristics

This section describes the functional requirements of this interface.

3.2.1 Network Interface Layer

The network interface layer handles the hardware details or the physical interfacing to the transmission medium (e.g., cable, radio link). It provides the mechanical, electrical, functional, and procedural methods necessary to activate, maintain, and deactivate physical connections for data links.

The following standards are allowable physical interface implementations.

3.2.1.1 TIA/EIA-232-E/F

The TIA/EIA-232-E/F should be implemented according to TIA/EIA-232-E/F documents.

3.2.1.2 TIA/EIA-530-A

The TIA/EIA-530-A should be implemented according to TIA/EIA-530-A document.

3.2.1.3 V.35

The V.35 should be implemented according to ITU-T V.35 document.

3.2.1.4 Ethernet

Transmission of IPv4 datagrams over Ethernet networks should be in accordance with RFC 894.

3.2.1.5 Frame Relay (FR)

Transmission of IPv4 datagrams over Frame Relay should be done in accordance with RFC 2427.

3.2.2 Internet Layer

The Internet layer specifies the protocols that provide services corresponding to the internet layer. The protocol used in this layer shall be Internet Protocol (IP). IP is designed for use in interconnected packet-switched computer communication networks and provides addressing and fragmentation services.

3.2.2.1 Internet Protocol

IPv4 implementations shall be in accordance with RFC 791.

3.2.3 Routing

The Border Gateway Protocol 4 (BGP-4) shall be used to build and maintain routing tables in the ATN IPS routers, in accordance with RFC 4271. BGP route flap damping shall be used in accordance with RFC 2439.

3.2.4 Monitoring

ATN IPS routers shall support monitoring, to include, at a minimum, properly responding to an ICMP (RFC 792) Echo Request (ping).

APPENDIX A - ACRONYMS

A.0 Acronyms

This appendix defines the acronyms used in this document.

A/G	AIR-GROUND
AAC	Aeronautical Administrative Control
ABM	Asynchronous Balanced Mode
AIDC	ATS Interfacility Data Communications
AMHS	ATS Message Handling System
AOC	Aeronautical Operational Control
APC	Aeronautical Passenger Communication
APRLs	ATN Protocol Requirement Lists
ATN	Aeronautical Telecommunications Network
ATS	Air Traffic Service
ATSC	Air Traffic Service Control
BGP	Border Gateway Protocol
CLNP	Connectionless Network Protocol
CLNS	Connection-Less Network Service
CPDLC	Controller Pilot Data Link Communications
DCE	Data Circuit-terminating Equipment
DM	Disconnected Mode
DTE	Data Terminal Equipment
E/R	Error Report
ECN	Explicit Congestion Notification
EIA	Electrical Industry Association
ERD	End Routing Domain
ES	End System
FIB	Forwarding Information Base
FR	Frame Relay
FSM	Finite State Machine
G-G(G/G)	Ground-Ground
GRE	Generic Routing Encapsulation

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ICAO	International Civil Aviation Organization
ICD	Interface Control Document
ICMP	Internet Control Message Protocol
IDRP	Inter Domain Routing Protocol
IEC	International Electrotechnical Commission
IPS	Internet Protocol Suite
ISO	International Standardization Organization
IP	Internet Protocol
ITU	International Telecommunications Union
ITU-T	ITU Telecommunications Sector
LAPB	Link Access Procedure Balanced
NET	Network Entity Title
NPDU	Network Protocol Data Unit
NSAP	Network Service Access Point
OSI	Open Systems Interconnection
PDU	Protocol Data Unit
PIB	Policy Information Base
PICS	Protocol Implementation Compliance Statement
PSDN	Public Switched Data Network
PSN	Packet Switched Network
PVC	Permanent Virtual Circuit
QOS	Quality of Service
RD	Routing Domain
RDC	Routing Domain Confederation
RIB	Routing Information Base
SARPs	Standards and Recommended Practices
SNDCF	Sub Network Dependent Convergence Functions
SNPA	Sub Network Point of Attachment
SVC	Switched Virtual Circuit
TBD	to be Determined
TBR	to be Reviewed
TCP	Transmission Control Protocol

APPENDIX B - PROPOSED IPV4 ADDRESS PLAN

B.0 Network Assignment by Region

Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria									
						Región				Estado / Territorio				Host's	
SAM	1	Argentina	10.0.0.0 / 19	Primera	10 . 0 . 0 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 31 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0					
	2	Chile	10.0.32.0 / 19	Primera	10 . 0 . 32 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 63 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	3	Brasil	10.0.64.0 / 19	Primera	10 . 0 . 64 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 95 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	4	Uruguay	10.0.96.0 / 19	Primera	10 . 0 . 96 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 1	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 127 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 1	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	5	Paraguay	10.0.128.0 / 19	Primera	10 . 0 . 128 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 159 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	6	Bolivia	10.0.160.0 / 19	Primera	10 . 0 . 160 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 1	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 191 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 1	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	7	Peru	10.0.192.0 / 19	Primera	10 . 0 . 192 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 0 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 223 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 0 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	8	Ecuador	10.0.224.0 / 19	Primera	10 . 0 . 224 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 0 . 255 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	9	Colombia	10.1.0.0 / 19	Primera	10 . 1 . 0 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 0 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 1 . 31 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 0 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	10	Venezuela	10.1.32.0 / 19	Primera	10 . 1 . 32 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 0 1	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 1 . 63 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 0 1	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				
	11	Guyana	10.1.64.0 / 19	Primera	10 . 1 . 64 . 1	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 1 0	0 0 0 0 0 0 . 0 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 1 . 95 . 254	0 0 0 0 0 1 0 1 0 . 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 . 0 1 0	1 1 1 1 1 1 . 1 1 1 1 1 1 1 1 0				

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Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria															
						Región				Estado / Territorio				Host's							
SAM	12	Surinam	10.1.96.0 / 19	Primera	10 . 1 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 1 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	13	Guyana Francesa (France)	10.1.128.0 / 19	Primera	10 . 1 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 1 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	-	VACANTE	10.1.160.0 / 19	Primera	10 . 1 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 1 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	-	VACANTE	10.1.192.0 / 19	Primera	10 . 1 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 1 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	-	VACANTE	10.1.224.0 / 19	Primera	10 . 1 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 1 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	-	VACANTE	10.2.0.0 / 19	Primera	10 . 2 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 1 0	0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 2 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 1 0	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0										
	-	-	-	-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
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			-	-	-	-	-	-	-	-											
			-	-	-	-	-	-	-	-											
			-	-	-	-	-	-	-	-											
128 (ULTIMA)	RESERVADA	10.15.224.0 / 19	Primera	10 . 15 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	1 1 1 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1											
			-	-	-	-	-	-	-	-											
			-	-	-	-	-	-	-	-											
			Ultima	10 . 15 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	1 1 1 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0											

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Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria			
						Región	Estado / Territorio	Host's	
NACC	1	Antigua y Barbuda	10.16.0.0 / 19	Primera	10 . 16 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	2	Bahamas	10.16.32.0 / 19	Primera	10 . 16 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	3	Barbados	10.16.64.0 / 19	Primera	10 . 16 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	4	Belize	10.16.96.0 / 19	Primera	10 . 16 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 0 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	5	Canada	10.16.128.0 / 19	Primera	10 . 16 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	6	Costa Rica	10.16.160.0 / 19	Primera	10 . 16 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	7	Cuba	10.16.192.0 / 19	Primera	10 . 16 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	8	República Dominicana	10.16.224.0 / 19	Primera	10 . 16 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 16 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 0 . 1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	9	El Salvador	10.17.0.0 / 19	Primera	10 . 17 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 17 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	10	Granada	10.17.32.0 / 19	Primera	10 . 17 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 17 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
	11	Guatemala	10.17.64.0 / 19	Primera	10 . 17 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				-	-	-	-	-	-
				Ultima	10 . 17 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1 . 0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0

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Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria															
						Región				Estado / Territorio								Host's			
NACC	12	Haiti	10.17.96.0 / 19	Primera	10 . 17 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 17 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	13	Honduras	10.17.128.0 / 19	Primera	10 . 17 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 17 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	14	Jamaica	10.17.160.0 / 19	Primera	10 . 17 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 17 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	15	Mexico	10.17.192.0 / 19	Primera	10 . 17 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 17 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	16	Nicaragua	10.17.224.0 / 19	Primera	10 . 17 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 17 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 0 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	17	Saint Kitts and Nevis	10.18.0.0 / 19	Primera	10 . 18 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	18	Santa Lucia	10.18.32.0 / 19	Primera	10 . 18 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	19	Saint Vincent and the Grenadines	10.18.64.0 / 19	Primera	10 . 18 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	20	Trinidad y Tobago	10.18.96.0 / 19	Primera	10 . 18 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	21	United States	10.18.128.0 / 19	Primera	10 . 18 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	22	Martinique (France)	10.18.160.0 / 19	Primera	10 . 18 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 18 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 0 1 0	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria														
						Región					Estado / Territorio					Host's				
NACC	34	British Virgin Islands (United Kingdom)	10.20.32.0 / 19	Primera	10 . 20 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 0 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	35	Cayman Islands (United Kingdom)	10.20.64.0 / 19	Primera	10 . 20 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	36	Montserrat (United Kingdom)	10.20.96.0 / 19	Primera	10 . 20 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	37	Turks and Caicos Islands (United Kingdom)	10.20.128.0 / 19	Primera	10 . 20 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	38	Puerto Rico (United States)	10.20.160.0 / 19	Primera	10 . 20 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	39	Virgin Islands (United States)	10.20.192.0 / 19	Primera	10 . 20 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	40	VACANTE	10.20.224.0 / 19	Primera	10 . 20 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				Ultima	10 . 20 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	0 1 0 0	-	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0								
	-	-	-	-	-	-	-	-	-	-	-	-								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
	-	-	-	-	-	-	-	-	-	-	-	-								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
	-	-	-	-	-	-	-	-	-	-	-	-								
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
				-	-	-	-	-	-	-	-									
128 (ULTIMA)	RESERVADA	10.31.224.0 / 19	Primera	10 . 31 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 1	1 1 1 1	-	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
			-	-	-	-	-	-	-	-										
			-	-	-	-	-	-	-	-										
			Ultima	10 . 31 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 1	1 1 1 1	-	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0									

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria														
						Región					Estado / Territorio					Host's				
APAC	1	Australia	10.32.0.0 / 19	Primera	10 . 32 . 0 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 0 0 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1								
				-	-	-	-	-	-	-										
				Ultima	10 . 32 . 15 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 0 0 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 32 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 0 0 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
	2	Bangladesh	10.32.32.0 / 19	-	-	-	-	-	-	-	-	-								
				Ultima	10 . 32 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 0 0 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 1 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
	3	Bhutan	10.32.64.0 / 19	Ultima	10 . 32 . 95 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 1 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 96 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 1 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
				Ultima	10 . 32 . 127 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 1 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	4	Brunel Darussalam	10.32.96.0 / 19	Primera	10 . 32 . 128 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 0 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
				Ultima	10 . 32 . 127 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	0 1 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 128 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 0 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
	5	Cambodia	10.32.128.0 / 19	-	-	-	-	-	-	-	-	-								
				Ultima	10 . 32 . 159 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 0 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 160 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 0 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
	6	China	10.32.160.0 / 19	Ultima	10 . 32 . 191 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 0 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 192 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
				Ultima	10 . 32 . 223 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	7	Cook Islands	10.32.192.0 / 19	Primera	10 . 32 . 224 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
				Ultima	10 . 32 . 223 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 32 . 224 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
	8	Cook Islands	10.32.224.0 / 19	-	-	-	-	-	-	-	-	-								
				Ultima	10 . 32 . 255 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 0 .	1 1 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
				Primera	10 . 33 . 0 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 0 0 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-										
	9	Democratic people's Republic of Korea	10.33.0.0 / 19	Ultima	10 . 33 . 31 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 0 0 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
Primera				10 . 33 . 32 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 0 0 1	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
-				-	-	-	-	-	-											
Ultima				10 . 33 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 0 0 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
10	Fiji	10.33.32.0 / 19	Primera	10 . 33 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 1 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
			-	-	-	-	-	-	-											
			Ultima	10 . 33 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 0 0 1	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
			Primera	10 . 33 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 1 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
11	India	10.33.64.0 / 19	-	-	-	-	-	-	-	-	-									
			Ultima	10 . 33 . 95 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 1 0	1 1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
			Primera	10 . 33 . 96 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 0 1 .	0 1 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
			-	-	-	-	-	-	-											

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria														
						Región					Estado / Territorio					Host's				
APAC	12	Indonesia	10.33.96.0 / 19	Primera	10 . 33 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 33 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	13	Japan	10.33.128.0 / 19	Primera	10 . 33 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 33 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	14	Kiribati	10.33.160.0 / 19	Primera	10 . 33 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 33 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	15	Lao People's Democratic Republic	10.33.192.0 / 19	Primera	10 . 33 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 33 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	16	Malaysia	10.33.224.0 / 19	Primera	10 . 33 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 33 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 0 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	17	Maldives	10.34.0.0 / 19	Primera	10 . 34 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	18	Marshall Islands	10.34.32.0 / 19	Primera	10 . 34 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	19	Micronesia	10.34.64.0 / 19	Primera	10 . 34 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	20	Mongolia	10.34.96.0 / 19	Primera	10 . 34 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	21	Myanmar	10.34.128.0 / 19	Primera	10 . 34 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									
	22	Nauru	10.34.160.0 / 19	Primera	10 . 34 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 1									
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 34 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 1 0	0 0 1 0	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0									

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria																	
						Región				Estado / Territorio								Host's					
APAC	34	Timor leste	10.36.32.0 / 19	Primera	10 . 36 . 32 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 63 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	35	Tonga	10.36.64.0 / 19	Primera	10 . 36 . 64 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 95 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	36	Vanuatu	10.36.96.0 / 19	Primera	10 . 36 . 96 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 127 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	37	Viet Nam	10.36.128.0 / 19	Primera	10 . 36 . 128 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 159 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	38	Isla de Pascua (Chile)	10.36.160.0 / 19	Primera	10 . 36 . 160 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 191 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	39	Polynesia Francesa (Francia)	10.36.192.0 / 19	Primera	10 . 36 . 192 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 223 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	40	New Caledonia (Francia)	10.36.224.0 / 19	Primera	10 . 36 . 224 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 36 . 255 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	41	Wallis and Futuna Islands (Francia)	10.37.0.0 / 19	Primera	10 . 37 . 0 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 37 . 31 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	42	Niue (New Zealand)	10.37.32.0 / 19	Primera	10 . 37 . 32 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 37 . 63 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	43	Pitcairn Island (United Kingdom)	10.37.64.0 / 19	Primera	10 . 37 . 64 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 37 . 95 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1
	44	American Samoa (United States)	10.37.96.0 / 19	Primera	10 . 37 . 96 . 1	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 37 . 127 . 254	0 0 0 0 1 0 1 0 .	0	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	1

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria									
						Región		Estado / Territorio				Host's			
APAC	45	Guam (United States)	10.37.128.0 / 19	Primera	10 . 37 . 128 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 37 . 159 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	46	Johnston Island Kingman Reef (United States)	10.37.160.0 / 19	Primera	10 . 37 . 160 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 37 . 191 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	47	Midway (United States)	10.37.192.0 / 19	Primera	10 . 37 . 192 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 37 . 223 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	48	Northern Mariana Islands (United States)	10.37.224.0 / 19	Primera	10 . 37 . 224 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 37 . 255 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 0 1	1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	49	Palmyra (United States)	10.38.0.0 / 19	Primera	10 . 38 . 0 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 38 . 31 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	50	Wake Island (United States)	10.38.32.0 / 19	Primera	10 . 38 . 32 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 38 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	51	VACANTE	10.38.64.0 / 19	Primera	10 . 38 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				Ultima	10 . 38 . 95 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	0 1 1 0	0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	-	-	-	-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
				-	-	-	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-					
-				-	-	-	-	-	-						
-				-	-	-	-	-	-						
-				-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-						
			-	-	-	-	-	-	-						
			-	-	-	-	-	-	-						
			-	-	-	-	-	-	-						
128 (ULTIMA)	RESERVADA	10.47.224.0 / 19	-	10 . 47 . 224 . 1	0 0 0 0 0 1 0 1 0 .	0 0 1 0	1 1 1 1	1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1						
			-	-	-	-	-	-	-						
			-	-	-	-	-	-	-						
			-	10 . 47 . 255 . 254	0 0 0 0 0 1 0 1 0 .	0 0 1 0	1 1 1 1	1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0						

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria															
						Región				Estado / Territorio								Host's			
MID	1	Afghanistan	10.48.0.0 / 19	Primera	10 . 48 . 0 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 31 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	2	Bahrain	10.48.32.0 / 19	Primera	10 . 48 . 32 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 63 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	3	Egypt	10.48.64.0 / 19	Primera	10 . 48 . 64 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 95 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	4	Islamic Republic of Iran	10.48.96.0 / 19	Primera	10 . 48 . 96 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 127 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	5	Iraq	10.48.128.0 / 19	Primera	10 . 48 . 128 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 0 0 0 0 0	1 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 159 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 0 0 0 0 0	1 0 0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	6	Israel	10.48.160.0 / 19	Primera	10 . 48 . 160 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 0 0 0 0 0	1 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 191 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 0 0 0 0 0	1 0 0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	7	Jordan	10.48.192.0 / 19	Primera	10 . 48 . 192 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 0 0 0 0	1 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 223 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 0 0 0 0	1 1 0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	8	Kuwait	10.48.224.0 / 19	Primera	10 . 48 . 224 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 0 0 0	1 1 1 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 48 . 255 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 0 0 0	1 1 1 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	9	Lebanon	10.49.0.0 / 19	Primera	10 . 49 . 0 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 49 . 31 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	10	Libyan Arab Jamahiriya	10.49.32.0 / 19	Primera	10 . 49 . 32 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 49 . 63 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0
	11	Oman	10.49.64.0 / 19	Primera	10 . 49 . 64 . 1	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 49 . 95 . 254	0 0 0 0 1 0 1 0	0 0 1 1	0 0 0 0	0 0 0 0	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	0

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria																
						Región					Estado / Territorio					Host's						
MID	12	Pakistan	10.49.96.0 / 19	Primera	10 . 49 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 49 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	13	Qatar	10.49.128.0 / 19	Primera	10 . 49 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 49 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	14	Saudi Arabia	10.49.160.0 / 19	Primera	10 . 49 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 49 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	16	Sudan	10.49.192.0 / 19	Primera	10 . 49 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 49 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	17	Syrian Arab Republic	10.49.224.0 / 19	Primera	10 . 49 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 49 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 0 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	18	United Arab Emirates	10.50.0.0 / 19	Primera	10 . 50 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 0 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 50 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 0 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	19	Yemen	10.50.32.0 / 19	Primera	10 . 50 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 0 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 50 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 0 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	20	VACANTE	10.50.64.0 / 19	Primera	10 . 50 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 50 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	0 0 1 0	0 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	128 (ULTIMA)	VACANTE	10.63.224.0 / 19	Primera	10 . 63 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 1 1	1 1 1 1 1 .	1 1 1 1 1 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 63 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 1 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria																	
						Región					Estado / Territorio					Host's							
WACAF	1	Benin	10.64.0.0 / 19	Primera	10 . 64 . 0 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 64 . 31 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0
	2	Burkina Faso	10.64.32.0 / 19	Primera	10 . 64 . 32 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	3	Cameroon	10.64.64.0 / 19	Primera	10 . 64 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 95 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	4	Cape Verde	10.64.96.0 / 19	Primera	10 . 64 . 96 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 127 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	5	Central African Republic	10.64.128.0 / 19	Primera	10 . 64 . 128 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 159 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	6	Chad	10.64.160.0 / 19	Primera	10 . 64 . 160 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 191 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	7	Congo	10.64.192.0 / 19	Primera	10 . 64 . 192 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 223 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	8	Cote de Ivoire	10.64.224.0 / 19	Primera	10 . 64 . 224 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 64 . 255 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0	
	9	Democratic Republic of the Congo	10.65.0.0 / 19	Primera	10 . 65 . 0 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1		
-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ultima				10 . 65 . 31 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0		
10	Equatorial Guinea	10.65.32.0 / 19	Primera	10 . 65 . 32 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1			
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Ultima	10 . 65 . 63 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0		
11	Gabon	10.65.64.0 / 19	Primera	10 . 65 . 64 . 1	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 1			
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Ultima	10 . 65 . 95 . 254	0 0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0		

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria																
						Región					Estado / Territorio					Host's						
WACAF	12	Gambia	10.65.96.0 / 19	Primera	10 . 65 . 96 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 65 . 127 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	13	Ghana	10.65.128.0 / 19	Primera	10 . 65 . 128 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 65 . 159 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	14	Guinea	10.65.160.0 / 19	Primera	10 . 65 . 160 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 65 . 191 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	15	Guinea-Bissau	10.65.192.0 / 19	Primera	10 . 65 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 65 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 0	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	16	Liberia	10.65.240.0 / 19	Primera	10 . 65 . 240 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 1 1	1 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1											
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 65 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	17	Mali	10.66.0.0 / 19	Primera	10 . 66 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 0 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	18	Mauritania	10.66.32.0 / 19	Primera	10 . 66 . 32 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 0 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 63 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	19	Niger	10.66.64.0 / 19	Primera	10 . 66 . 64 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 95 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	20	Nigeria	10.66.96.0 / 19	Primera	10 . 66 . 96 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 127 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	21	Sao Tome and Principe	10.66.128.0 / 19	Primera	10 . 66 . 128 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 159 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											
	22	Senegal	10.66.160.0 / 19	Primera	10 . 66 . 160 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 191 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 0 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 1 0											

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria														
						Región					Estado / Territorio					Host's				
WACAF	23	Sierra Leone	10.66.192.0 / 19	Primera	10 . 66 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 0	1 1 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 0	1 1 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .
	24	Togo	10.66.224.0 / 19	Primera	10 . 66 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 0	1 1 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 66 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 0	1 1 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .
	25	VACANTE	10.67.0.0 / 19	Primera	10 . 67 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 1	0 0 0	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 67 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 1	0 0 0	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .
	26	VACANTE	10.67.32.0 / 19	Primera	10 . 67 . 32 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 1	0 0 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 67 . 63 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	0 0 1 1	0 0 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	126 (ULTIMA)	RESERVADA	10.79.224.0 / 19	Primera	10 . 79 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 0 0	1 1 1 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .	0 0 0 0 0 .
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 79 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 0	1 1 1 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .	1 1 1 1 1 .

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria															
						Región				Estado / Territorio				Host's							
ESAF	1	Angola	10.80.0.0 / 19	Primera	10 . 80 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 0 0	0 0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	2	Botswana	10.80.32.0 / 19	Primera	10 . 80 . 32 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 63 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	3	Burundi	10.80.64.0 / 19	Primera	10 . 80 . 64 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 95 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	4	Comoros	10.80.96.0 / 19	Primera	10 . 80 . 96 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 127 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	0 0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	5	Djibouti	10.80.128.0 / 19	Primera	10 . 80 . 128 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 159 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	6	Eritrea	10.80.160.0 / 19	Primera	10 . 80 . 160 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 0 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 191 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	7	Ethiopia	10.80.192.0 / 19	Primera	10 . 80 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	8	Kenya	10.80.224.0 / 19	Primera	10 . 80 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
				-	-	-	-	-	-	-	-										
				-	-	-	-	-	-	-	-										
				Ultima	10 . 80 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 0	1 1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0										
	9	Lesotho	10.81.0.0 / 19	Primera	10 . 81 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1										
-				-	-	-	-	-	-	-											
-				-	-	-	-	-	-	-											
Ultima				10 . 81 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0											
10	Madagascar	10.81.32.0 / 19	Primera	10 . 81 . 32 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1											
			-	-	-	-	-	-	-	-											
			-	-	-	-	-	-	-	-											
			Ultima	10 . 81 . 63 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0											
11	Malawi	10.81.64.0 / 19	Primera	10 . 81 . 64 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 0 0 1											
			-	-	-	-	-	-	-	-											
			-	-	-	-	-	-	-	-											
			Ultima	10 . 81 . 95 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 0 1	0 0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 1 0											

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria									
						Región		Estado / Territorio				Host's			
ESAF	12	Mauritius	10.81.96.0 / 19	Primera	10 . 81 . 96 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 1 1	0 0 0 1	0 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	
				Ultima	10 . 81 . 127 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	0 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	13	Mozambique	10.81.128.0 / 19	Primera	10 . 81 . 128 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 81 . 159 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	14	Namibia	10.81.160.0 / 19	Primera	10 . 81 . 160 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 81 . 191 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	15	Rwanda	10.81.192.0 / 19	Primera	10 . 81 . 192 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 81 . 223 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	16	Seychelles	10.81.224.0 / 19	Primera	10 . 81 . 224 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 81 . 255 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 0 1	0 0 0 1	1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	17	Somalia	10.82.0.0 / 19	Primera	10 . 82 . 0 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 31 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	18	South Africa	10.82.32.0 / 19	Primera	10 . 82 . 32 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 63 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	19	Swaziland	10.82.64.0 / 19	Primera	10 . 82 . 64 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 95 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	20	Uganda	10.82.96.0 / 19	Primera	10 . 82 . 96 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 127 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	0 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	21	United Republic of Tanzania	10.82.128.0 / 19	Primera	10 . 82 . 128 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 159 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0					
	22	Zambia	10.82.160.0 / 19	Primera	10 . 82 . 160 . 1	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1					
				-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-		
				Ultima	10 . 82 . 191 . 254	0 0 0 0 1 0 1 0 . 0 1 0 1	0 0 1 0	0 0 1 0	1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0					

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria											
						Región				Estado / Territorio				Host's			
ESAF	23	Zimbabwe	10.82.192.0 / 19	Primera	10 . 82 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 0 .	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				Ultima	10 . 82 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 0 .	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0						
	24	VACANTE	10.82.224.0 / 19	Primera	10 . 82 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 0 .	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				Ultima	10 . 82 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 0 .	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0						
	25	VACANTE	10.83.0.0 / 19	Primera	10 . 83 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 1 .	0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				Ultima	10 . 83 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	0 0 1 1 .	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
	-	-	-	-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
				-	-	-	-	-	-	-	-						
128 (ULTIMA)	VACANTE	10.95.224.0 / 19	Primera	10 . 95 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 0 1	1 1 1 1 .	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1							
			-	-	-	-	-	-	-	-							
			-	-	-	-	-	-	-	-							
			Ultima	10 . 95 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 0 1	1 1 1 1 .	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0							

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Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria											
						Región				Estado / Territorio				Host's			
EUR/NAT	1	Albania	10.96.0.0 / 19	Primera	10 . 96 . 0 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 31 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	0	0	1	1	1
	2	Algeria	10.96.32.0 / 19	Primera	10 . 96 . 32 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	0	0	0	0	1
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 63 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	0	1	1	1	1
	3	Andorra	10.96.64.0 / 19	Primera	10 . 96 . 64 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	1	0	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 95 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	1	0	1	1	1
	4	Armenia	10.96.96.0 / 19	Primera	10 . 96 . 96 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	1	1	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 127 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	0	1	1	1	1	1
	5	Austria	PENS user														
	6	Azerbaijan	10.96.160.0 / 19	Primera	10 . 96 . 160 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	0	1	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 191 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	0	1	1	1	1
	7	Belarus	10.96.192.0 / 19	Primera	10 . 96 . 192 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	1	0	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 223 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	1	0	1	1	1
	8	Bosnia and Herzegovina	10.96.224.0 / 19	Primera	10 . 96 . 224 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	1	1	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 96 . 255 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 0 .	1	1	1	1	1	1
	9	Bulgaria	Planned PENS user														
	10	Croatia	PENS user														
	11	Czech Republic	10.97.64.0 / 19	Primera	10 . 97 . 64 . 1	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 1 .	0	1	0	0	0	0
				-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Ultima	10 . 97 . 95 . 254	0 0 0 0 1 0 1 0 .	0	1	1	0	0 0 0 1 .	0	1	0	1	1	1

Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria			
						Región	Estado / Territorio	Host's	
EUR/NAT	12	Denmark	PENS user						
	13	Estonia	10.97.128.0 / 19	Primera	10 . 97 . 128 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 0 1 . 1 0 0 0 0 0 0 . 0 0 0 0 0 0 0 1			
				-	-	-	-	-	
				Ultima	10 . 97 . 159 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 0 1 . 1 0 0 1 1 1 1 1 . 1 1 1 1 1 1 1 0			
	14	Finland	PENS user						
	15	France	PENS user						
	16	Georgia	10.97.224.0 / 19	Primera	10 . 97 . 224 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 0 1 . 1 1 1 0 0 0 0 0 . 0 0 0 0 0 0 0 1			
				-	-	-	-	-	
				Ultima	10 . 97 . 255 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 0 1 . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0			
	17	Germany	PENS user						
	18	Greece	10.98.32.0 / 19	Primera	10 . 98 . 32 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 1 0 . 0 0 1 0 0 0 0 0 . 0 0 0 0 0 0 0 1			
				-	-	-	-	-	
				Ultima	10 . 98 . 63 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 1 0 . 0 0 1 1 1 1 1 1 . 1 1 1 1 1 1 1 0			
	19	Hungary	PENS user						
	20	Iceland	10.98.96.0 / 19	Primera	10 . 98 . 96 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 1 0 . 0 1 1 0 0 0 0 0 . 0 0 0 0 0 0 0 1			
				-	-	-	-	-	
				Ultima	10 . 98 . 127 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0 0 0 1 0 . 0 1 1 1 1 1 1 1 . 1 1 1 1 1 1 1 0			
	21	Ireland	Planned PENS user						
	22	Italy	PENS user						

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Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria									
						Región	Estado / Territorio				Host's				
EUR/NAT	23	Kazakhstan	10.98.192.0 / 19	Primera	10 . 98 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 0	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 98 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 0	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	24	Kyrgyzstan	10.98.224.0 / 19	Primera	10 . 98 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 0	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 98 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 0	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	25	Latvia	10.99.0.0 / 19	Primera	10 . 99 . 0 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 31 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	26	Lithuania	10.99.32.0 / 19	Primera	10 . 99 . 32 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 63 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	27	Luxemburgo	10.99.64.0 / 19	Primera	10 . 99 . 64 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 95 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	28	Malta	10.99.96.0 / 19	Primera	10 . 99 . 96 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 127 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	0 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	29	Monaco	10.99.128.0 / 19	Primera	10 . 99 . 128 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 0 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 159 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 0 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	30	Montenegro	10.99.160.0 / 19	Primera	10 . 99 . 160 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 0 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 191 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 0 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	31	Morocco	10.99.192.0 / 19	Primera	10 . 99 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 1 0	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 1 0	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
	32	Netherlands	10.99.224.0 / 19	Primera	10 . 99 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 1 1	0 0 0 0 0 .	0 0 0 0 0 0 0 1				
				-	-	-	-	-	-	-	-				
				Ultima	10 . 99 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0	0 0 1 1	1 1 1	1 1 1 1 1 .	1 1 1 1 1 1 1 0				
33	Norway	PENS user													

Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria			
						Región	Estado / Territorio	Host's	
EUR/NAT	34	Poland	Planned PENS user						
	35	Portugal	PENS user						
	36	Republic of Moldova	10.100.96.0 / 19	Primera	10 . 100 . 96 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	0 1 1 0 0 0 0 0 .	0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				Ultima	10 . 100 . 127 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	0 1 1 1 1 1 1 .	1 1 1 1 1 1 1 0
	37	Romania	Planned PENS user						
	38	Russian federation	10.100.160.0 / 19	Primera	10 . 100 . 160 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 0 1 0 0 0 0 0 .	0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				Ultima	10 . 100 . 191 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 0 1 1 1 1 1 .	1 1 1 1 1 1 1 0
	39	San Marino	10.100.192.0 / 19	Primera	10 . 100 . 192 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 1 0 0 0 0 0 0 .	0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				Ultima	10 . 100 . 223 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 1 0 1 1 1 1 .	1 1 1 1 1 1 1 0
	40	Serbia	10.100.224.0 / 19	Primera	10 . 100 . 224 . 1	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 1 1 0 0 0 0 0 .	0 0 0 0 0 0 0 1
				-	-	-	-	-	-
				Ultima	10 . 100 . 255 . 254	0 0 0 0 1 0 1 0 .	0 1 1 0 0 1 0 0 .	1 1 1 1 1 1 1 .	1 1 1 1 1 1 1 0
	41	Slovakia	PENS user						
	42	Slovenia	PENS user						
	43	Spain	PENS user						
	44	Sweden	PENS user						

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Asignación de Redes por Estado/Territorio.

Región	Nro	Estado / Territorio	Red	Direcciones utilizables	Notación Decimal	Notación Binaria			
						Región	Estado / Territorio	Host's	
EUR/NAT	45	Switzerland	PENS user						
	46	Tajikistan	10.101.160.0 / 19	Primera	10 . 101 . 160 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 101 . 191 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	47	The Former Yugoslav Republic of Macedonia	10.101.192.0 / 19	Primera	10 . 101 . 192 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 101 . 223 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	48	Tunisia	10.101.224.0 / 19	Primera	10 . 101 . 224 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 101 . 255 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 0 1 . 1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	49	Turkey	10.102.0.0 / 19	Primera	10 . 102 . 0 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 102 . 31 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	50	Turkmenistan	10.102.32.0 / 19	Primera	10 . 102 . 32 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 102 . 63 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	51	Ukraine	10.102.64.0 / 19	Primera	10 . 102 . 64 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 102 . 95 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	52	United Kingdom	PENS user						
	53	Uzbekistan	10.102.128.0 / 19	Primera	10 . 102 . 128 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 102 . 159 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	0 1 1 0 . 1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0	
	-	-	-	-	-	-	-	-	
				-	-	-	-	-	
				-	-	-	-	-	
	128 (ULTIMA)	RESERVADA	10.111.224.0 / 19	Primera	10 . 111 . 224 . 1	0 0 0 0 1 0 1 0 . 0 1 1 0	1 1 1 1 . 1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1	
				-	-	-	-	-	
				Ultima	10 . 111 . 255 . 254	0 0 0 0 1 0 1 0 . 0 1 1 0	1 1 1 1 . 1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 1	