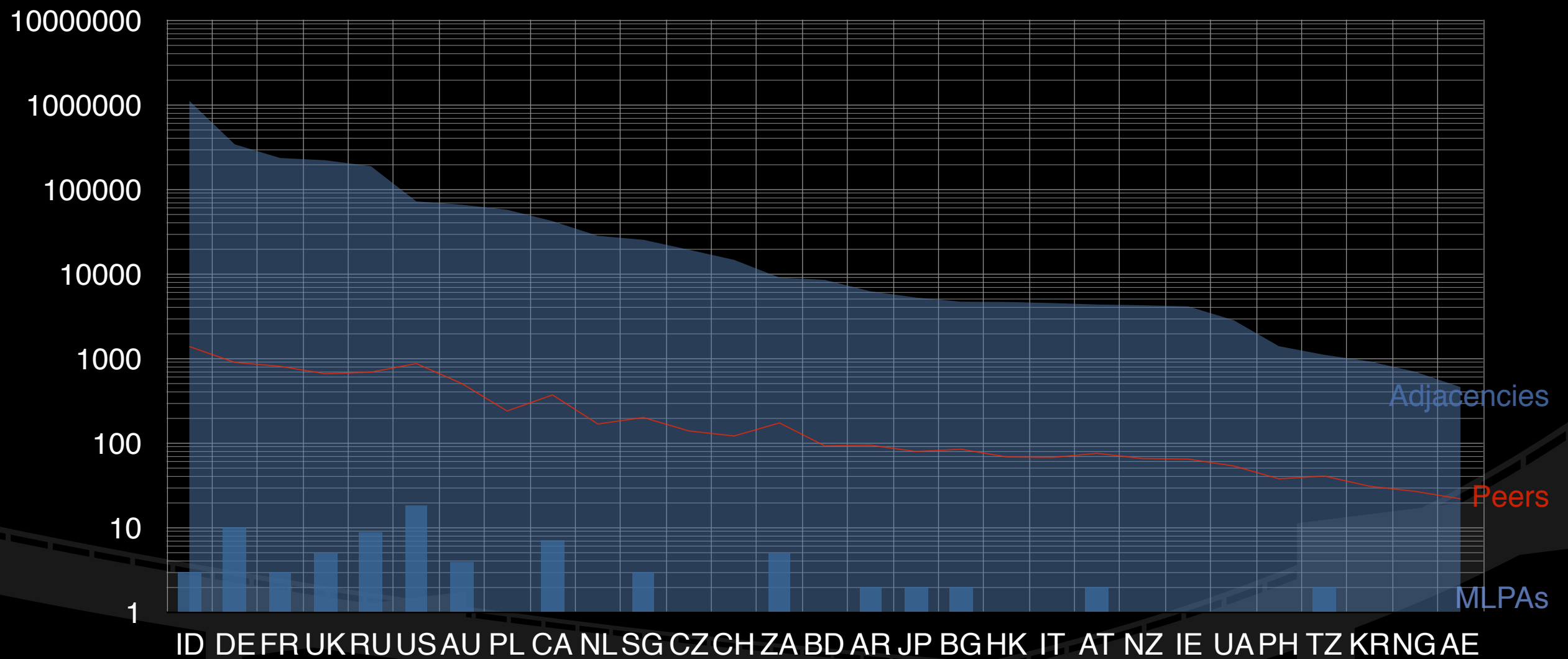


# **BGP Route Servers, Route Collectors, Anycast DNS, and more ..**

(Getting more Value Added Services to your IXP)

**Most peering sessions  
(byPeeringSessionCount) happen  
through through multilateral  
peering sessions**

# Countries that Benefit from MLPAs



# BGP Route Collectors



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## Looking Glass

### IXP, City, Country

AAIX, Klagenfurt, Austria  
AIX, Port au Prince, Haiti  
AIXP, Arusha, Tanzania  
AMS-IX Bay Area, San Francisco, United States  
AMS-IX Chicago, Chicago, United States  
AMS-IX New York, New York, United States  
AMS-IX, Amsterdam, Netherlands  
ANGONIX, Luanda, Angola  
Any2, Los Angeles, United States  
AtlantaIX, Atlanta, United States  
BCIX, Berlin, Germany  
BDIX, Dhaka, Bangladesh

Sort By IXP

Sort By City

Sort By Country

### Query

- ☐ show ip bgp summary
- ☐ show ipv6 bgp summary
- ☐ show ip bgp <prefix> [netmask]
- ☐ show ipv6 bgp <prefix>
- ☐ show ip bgp regex <regex>
- ☐ show ip bgp neighbor <IP\_addr>

### Argument(s)

Submit →

# Debugging...



## INX-ZA Looking Glass Service

### INX BGP Looking Glass

Router: JINX -- Route Collector

Query Type: show ip bgp regexp <expression>

Arguments: \_37150\_

BGP table version is 0, local router ID is 196.223.14.3

Status codes: s suppressed, d damped, h history, \* valid, > best, i - internal,  
r RIB-failure, S Stale, R Removed

Origin codes: i - IGP, e - EGP, ? - incomplete

	Network	Next Hop	Metric	LocPrf	Weight	Path
*	196.40.176.0/20	196.223.14.47	0	37179	37150	37150 37150 i
*		196.223.14.103	0	37150		i
*		196.223.14.10	0	3741	37179	37150 37150 37150 i
*		196.223.14.103	0	37150		i
*>		196.223.14.103	0	37150		i
*	196.46.176.0/21	196.223.14.47	0	37179	37150	37150 37150 i
*		196.223.14.103	0	37150		i
*		196.223.14.10	0	3741	37179	37150 37150 37150 i
*		196.223.14.103	0	37150		i
*>		196.223.14.103	0	37150		i

Total number of prefixes 2

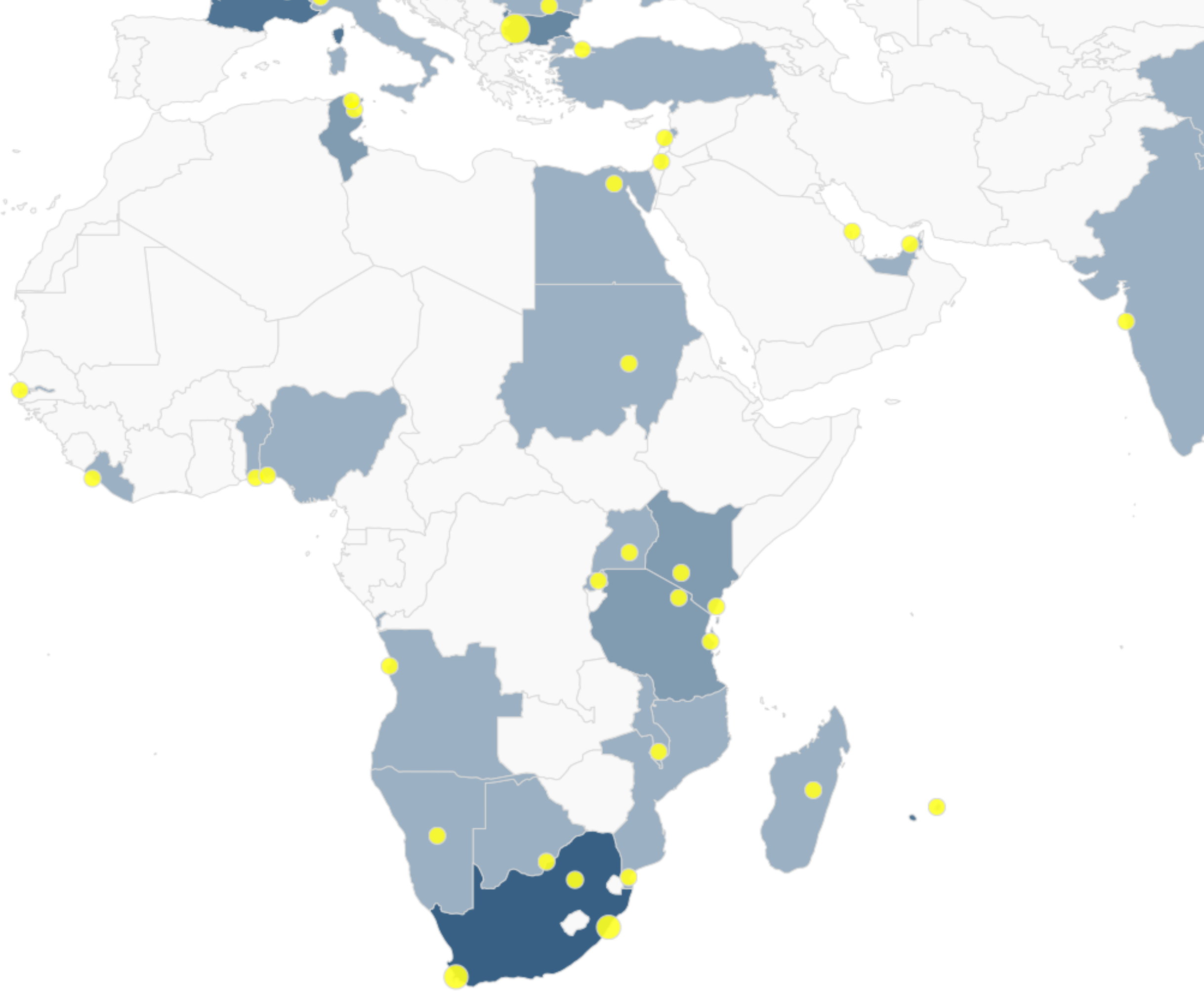
rc-jinx> quit

# More debugging...

2001:43f8:1f0::37	4	32653	430419	390994	0	0	0	01w6d08h	1
2001:43f8:1f0::39	4	36874	2048258	287988	0	0	0	01w6d08h	20867
2001:43f8:1f0::41	4	15169	803729	779582	0	0	0	01w3d09h	28
2001:43f8:1f0::43	4	37640	320837	280917	0	0	0	01w6d08h	1
2001:43f8:1f0::44	4	25152	444924	389968	0	0	0	04w0d19h	1
2001:43f8:1f0::47	4	37640	320837	280917	0	0	0	01w6d08h	1

# DNS Services

- PCH DNS node - 300+ TLDs
- 2-3 DNS Roots





**dns@afrinic.net**

# Other services to consider

Created by Graham Beneke, last modified by Nishal Goburdhan on 07 Jul, 2017

INX-ZA operates several services for public benefit. These are listed below, and a short write-up of how to use each of these, is listed in the corresponding page alongside. The INXes are a logical place to provide centralised, non-profit services that benefit the entire peering community, so should have need for a particular service, or, have an idea that you think will benefit the community, please feel free to contact us via [outreach at inx.net.za](#)

## Domain Name Services (DNS)

A number of important DNS services are hosted at JINX, CINX & DINX. As well as ZACR, the operator of the CO.ZA, .ORG.ZA, & .NET.ZA second-level domains, INX-ZA provides services to several international service providers who offer DNS services, including, [Community DNS](#), [Internet Systems Consortium](#), [Netnod](#), [Packet Clearing House](#), and the [RIPE-NCC](#), many of whom have been in operation in South Africa for more than a decade.

Through these partners, INX participants have access to a wide variety of domain name services, including:

- An instance of the domains operated by [ZACR](#) (eg. co.za)
- An anycast instance of the I-Root server together with ccTLDs and gTLDs (operated by [Netnod](#))
- An anycast instance of the F-Root server (operated by [ISC](#))
- An anycast instance of the E-Root server (operated by NASA)
- An anycast instance of the D-Root server (operated by University of Maryland)
- Any anycast instance of the K-Root server (operated by the [RIPE-NCC](#))
- Instances of DNS services provided by [CommunityDNS](#)
- Instances of about 400 TLDs (operated by [Packet Clearing House](#))

- [Domain Name Services \(DNS\)](#)
- [BGP Route collector](#)
- [BGP Route Server](#)
- [Looking Glass](#)
- [RouteViews Collector](#)
- [AS112 Node](#)
- [Time \(NTP\) Servers](#)
- [Mailing Lists](#)
- [RIPE ATLAS Anchors](#)
- [RPKI Validation Service](#)
- [INX Management Network](#)
- [Data and VOIP Peering](#)
- [vPNI Service](#)
-

# wiki.inx.net.za

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