

INOC-DBA Hotline Phone System aka. "The AS Number Phone"

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What's it About?

INOC-DBA: Inter-NOC Dial-by-ASN

 Global Voice-over-IP hotline phone system, directly interconnecting NOCs and SIRTs within carriers, ISPs, exchange points, and vendors.



How does it work?

- If you just dial an Autonomous System Number, it'll ring a predefined group of phones within that AS. (example: 42)
- If you dial an ASN and an extension number, it'll ring the phones belonging to that person. (example: 42*WEW)

Also, well-known extensions for NOC, abuse, routing, SIRT, et cetera.



How does it work?

> SIP is similar to Dynamic DNS.

- Pick up an address via DHCP or statically
- Download config from preconfigured server
- Register current IP address with a SIP Registry
- Registry transfers IP address to SIP Proxies
- When someone calls your phone, they do a dialednumber-to-IP-address lookup against the proxy
 - Then their phone contacts yours directly.



Any Problems So Far?

CPE network environment: NAT and firewall traversal **Unusual DHCP server options** Codec Mis-match between CPE Asymmetric Routing Nothing a little static configuration can't overcome.



Unexpected Benefits

QoS is completely unnecessary.

Sound quality far exceeds that of the PSTN, even under the worst conditions.

Latency seems less annoying when it's not accompanied by degraded sound.



Is it Difficult to Set Up?

> Not really.

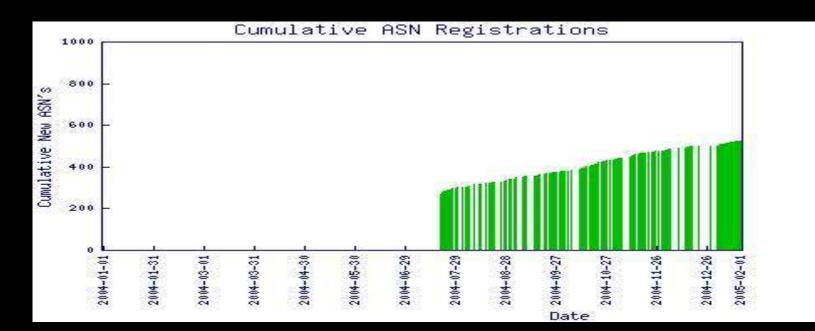


Is it Difficult to Set Up?



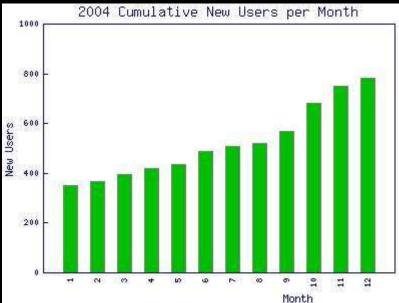


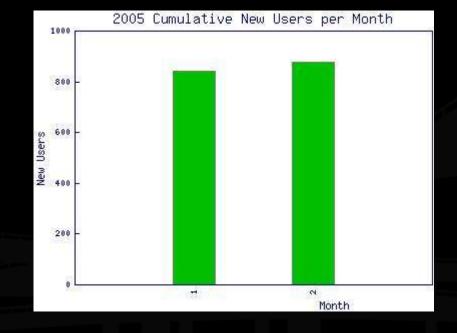
Cumulative ASN Registration





Cumulative New Users

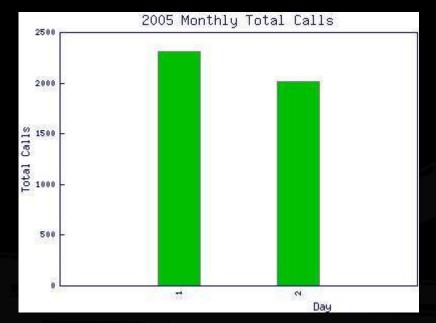






Monthly Total Calls



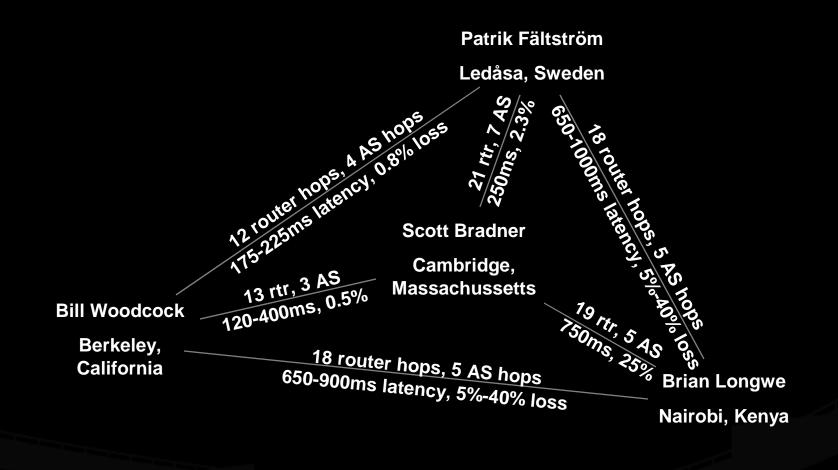




News

- Authentication System up and running since a few months
- Self Provisioning system launched
- Conference bridge successfully tested, but not yet implemented on our side
- 1500+ lines on the db, but lots are not 24x7 available
- Asterisks seems to be a popular gateway to the inoc-dba. Asterisks FAQ on mailing list...







Future activities

NAT support or not to NAT
Preserving dilution
xml directory accessible on phone
Server side config provisioning for more phones
SIP Approact

SIP Anycast



How to Participate

> With your own phones:

We need your contact info and ASNs. http://www.pch.net/inoc-dba/ has 'New User' section

With phones from us:

We need your contact and shipping address, ASNs, and extension number.

But frankly, it's a long wait.



More Information

General information:

http://www.pch.net/inoc-dba/

Mailing-list archive:

http://www.pch.net/resources/discussion/inoc-dba/archive/

Who's participating:

http://www.pch.net/inoc-dba/directory/

Exchanges		Carriers		Associations
LINX	SD-NAP	UUnet	AT&T	ARIN
PAIX	LAIIX	Sprint	SBC	APNIC
Equinix	NSP-IXP2	C&W	AOL/T-W	RIPE/NCC
AMS-IX	NOTA	Genuity	RCN	ICANN
MAEs	OIX	Verio/NTT	TDS	ISC