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?

- Uses SIP.
  - Uses SER (SIP Express Router)
  - You register online
    - Give it a day or two to get approved
  - Then you configure your phone / asterisks / gateway to register with the inoc-dba.pch.net
  - Someone dials your ASN, your phone rings
Any Problems So Far?

- CPE network environment: NAT and firewall traversal
- Unusual DHCP server options
- 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?
News

- Call forwarding to sip: addresses.
- Conference bridge successfully tested, and available for use on request.
  - inoc-dba used more commonly as an interface to other voip conference bridges.
- 1400+ users on the db, but lots are not 24x7 available
- Asterisk seems to be a popular gateway to the inoc-dba.
Bill Woodcock
Berkeley, California
18 router hops, 5 AS hops
650–900ms latency, 5%-40% loss

Patrik Fältström
Ledåsa, Sweden
12 router hops, 4 AS hops
175–225ms latency, 0.8% loss

Scott Bradner
Cambridge, Massachusetts
13 rtr, 3 AS
120–400ms, 0.5%

Brian Longwe
Nairobi, Kenya
19 rtr, 5 AS
750ms, 25%

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Ongoing activities

- NAT or not to NAT
- Preserving dilution
- xml directory accessible on phone
- Server side config provisioning for more phones
- SIP Anycast
How to Participate

- With your own phones/gateways:
  - Register online http://www.pch.net/inoc-dba/

- With phones from us:
  - We need your contact and shipping address, ASNs, and extension number.
  - Phones from us are getting rarer
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/

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