

999 for “fixed line” VoIP (part 2)

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ITSPA, 999 OFCOM/NICC W/G

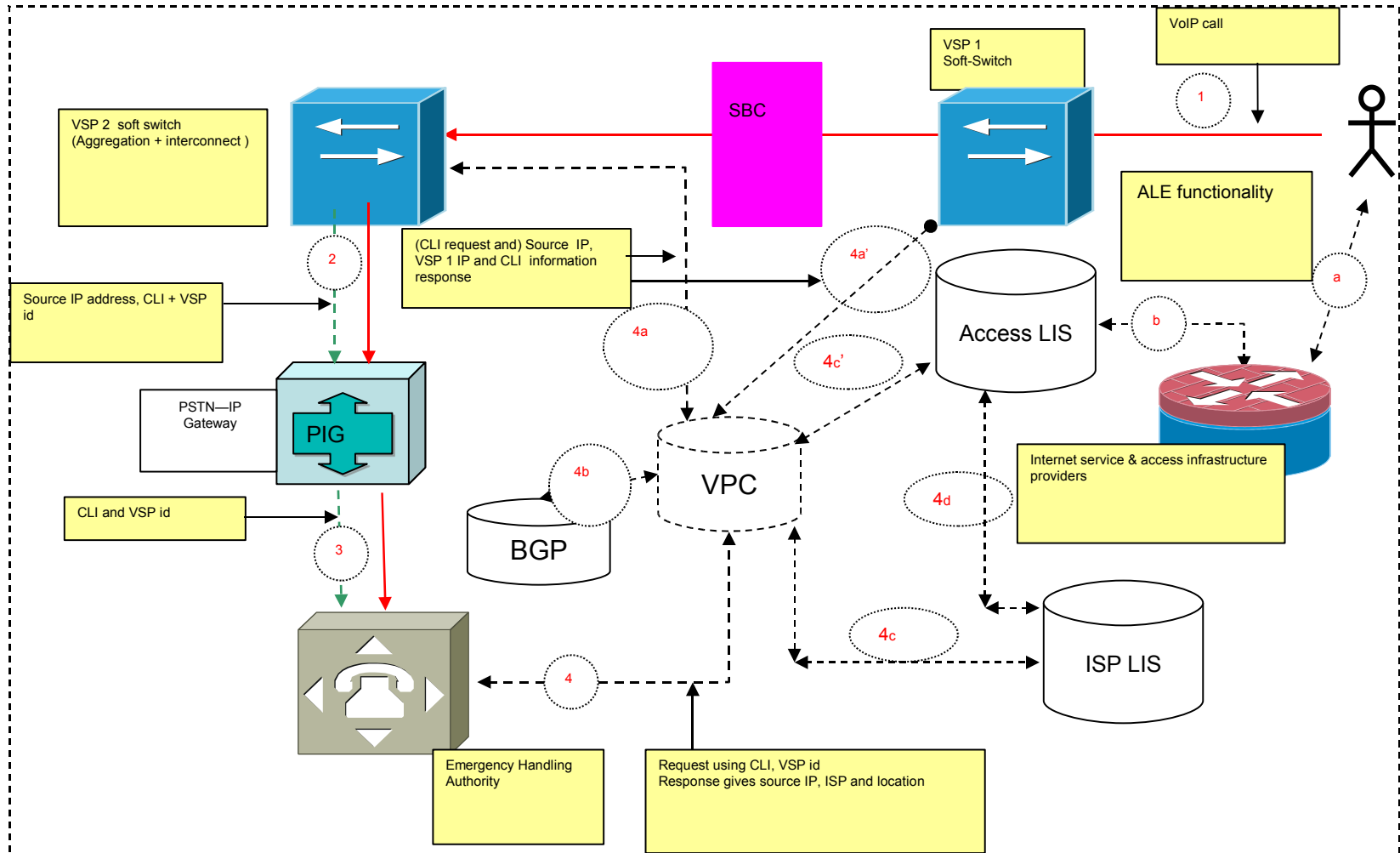
My last presentation

- Powerpoint file was stamped Jan 2006
- We do have a draft generic solution based on some US standards work
- It is being implemented in Canada
- Tricky to get UK ISPs to want to know where their customers are located

What's the problem

- If you dial 999 on my network, you have to tell me your address in advance
- I ftp a CSV file to BT Operator
- They lookup your CLI when you call, and confirm your address with you
- What happens when you move, or you're lazy, or a customer...?

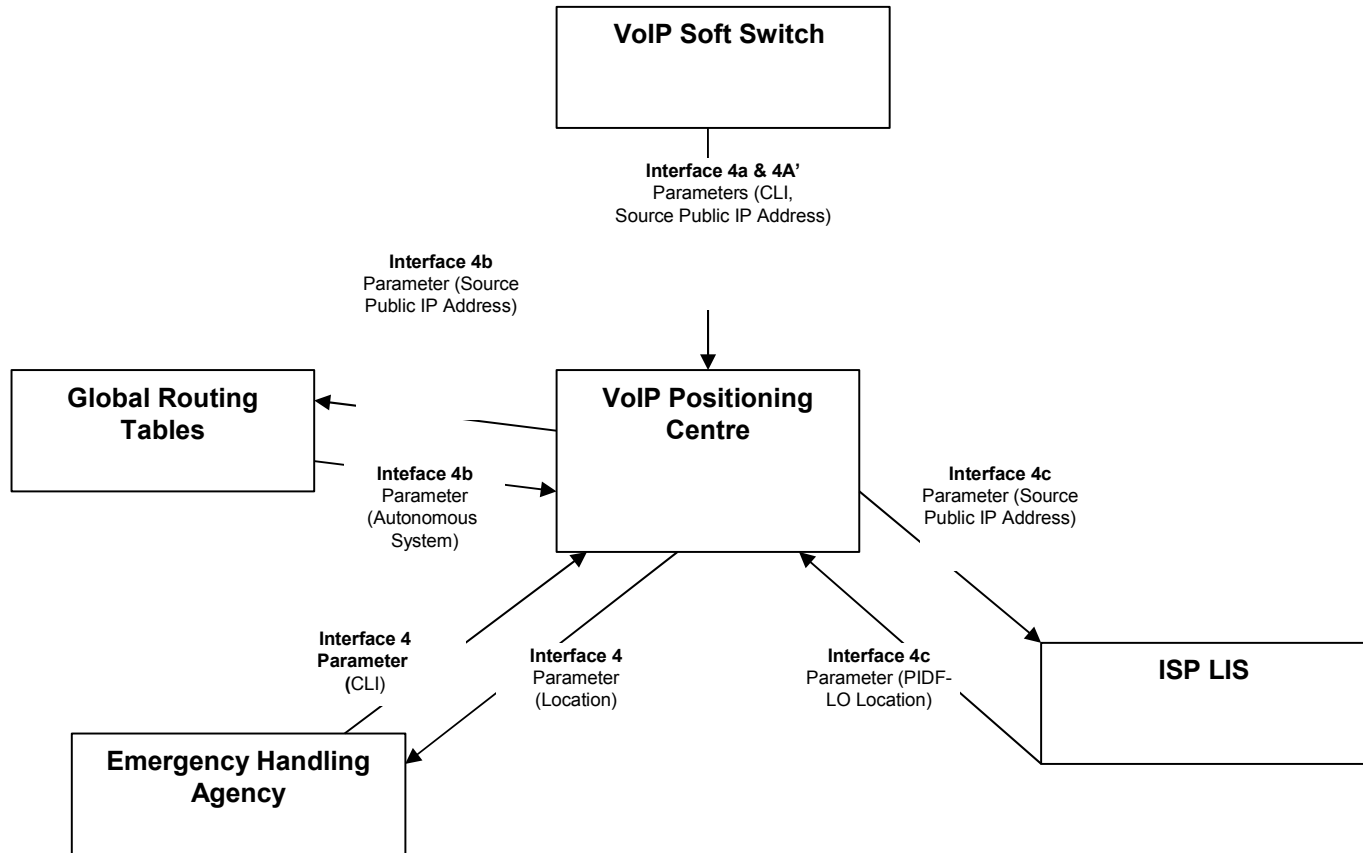
NENA i2 Architecture



What did that mean?

- VSP1 is the Switchless VoIP Provider
- VSP2 interconnects Nos to 999 Operator
- 999 Op queries the VPC (VoIP Positioning Centre)
- VPC Queries Access LIS (Location Information Server)
- VPC Recovers Location Information and delivers to 999 Operator

VPC Interfaces (1)



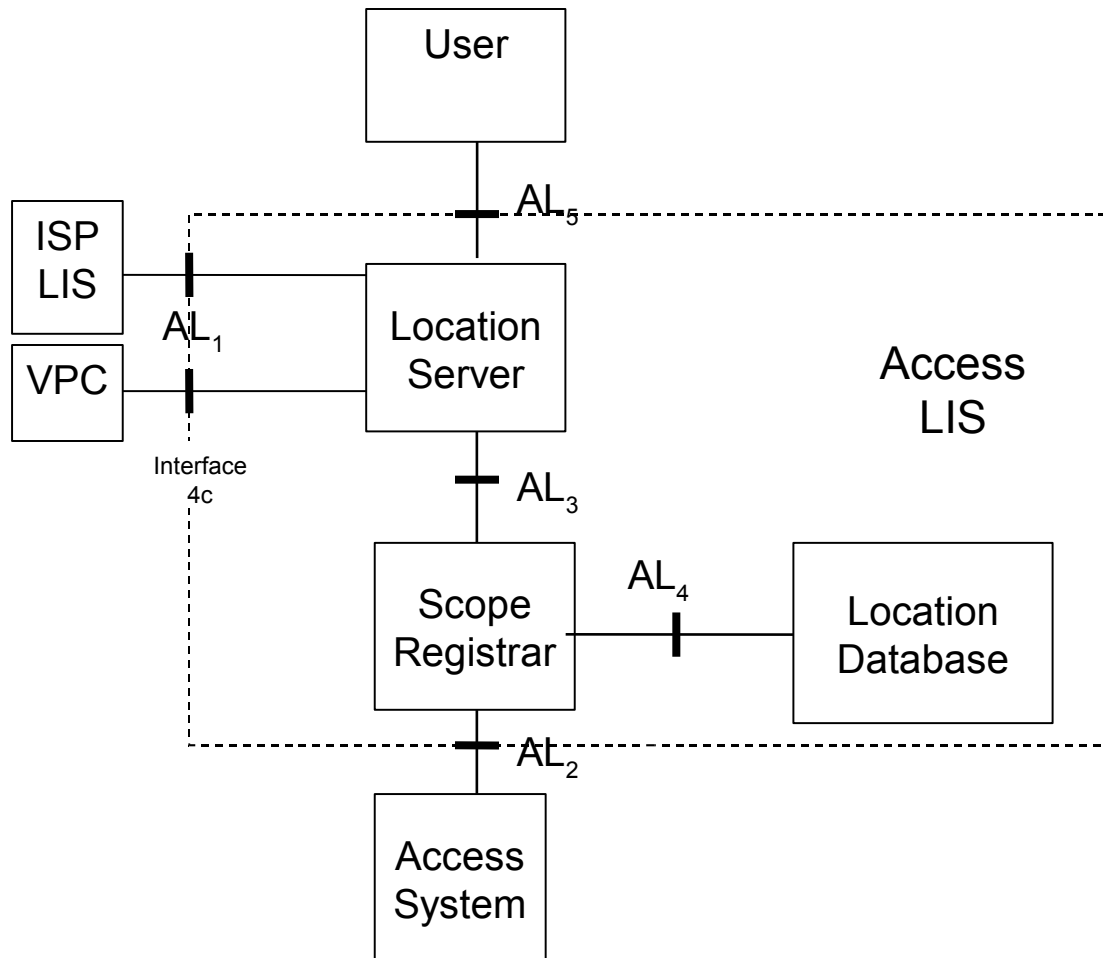
VPC Interfaces (2)

- Interface 4a and 4a', to the VoIP Provider
 - To provide a location element / cli / IP address
- Interface 4b to the ISP LIS (what location).
- Interface 4c to BGP (which ISP).
- Interface 4 to the EHA system

What is the ISP LIS?

- Each Access Provider subscribed to the system needs to be able to lookup the location of it's subscribers
 - Depending on how often your subscribers move, there are lots of ways to do this
 - We have conceptual models for IP Stream, LLU Operators,

Access LIS Architecture



Who wants to do this?

- Mostly, LLU Operators wanting to do full MPF solutions, who are routing calls over IP at the earliest opportunity
 - I've found one Network Architect with a business need so far..
- WiFi HotSpot Operators who have deals with VoIP Companies
- Not many conventional ISPs!

LIS is Generic Concept

- Access LIS concept works for
 - Mobile (GSM/3GPP)
 - Roaming
 - WiMAX
 - I2 Architecture is coming out of IETF and NENA, so it seems likely to become a global standard

Questions (for you?)

- Is it realistic to support IP to Location lookups?
- How might your organisation improve it's internal databases?
- Is this useful for abuse handling too?

Next Steps

- We have a draft 40 page standard
- We need to get it out to NICC + OFCOM
- We have Vendors who can implement it
- We have Telco+Access Operators who need it
- There is a lack of participation from the “IP Stream User” community / traditional ISPs

Questions for me?!