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# DTI's ENUM Consultation

10 August - 10 November 2004

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# Structure of presentation

- Part 1 – Towards a consultation
- Part 2 – ENUM structure in the UK
- Part 3 – Issues in more detail



Part 1

Towards a Consultation

# The Facts

- Consultation issued 10 August
- Responses due by 10 November
- Copies available from:  
<http://www.dti.gov.uk/consultations/consultation-1230.html>
- Sent widely to UK telecoms industry and users
- ENUM is “public ENUM” based on RFC 3761
- Conforms to TS 102 051 from ETSI

# The History so far

- DTI initiated cooperative work in 2001 under UK ENUM Group (UKEG)
- UKEG established basic framework for ENUM in UK (included Atlas, BT, C&W, Nominet, Neustar, Orange, TIA, Thus, Vodafone)
- Trial 2003 - established that framework is OK but little trial traffic

# Setting up a consultation

- Discussions within UKEG involving DTI and Ofcom since 2001 on how ENUM should be operated in the UK
- DTI want a model that was self-regulating as far as possible
- Structures advocated in the consultation arrived at in discussion with UKEG

# DTI's Objectives for ENUM - 1

- Promote convergence of telecoms and the Internet
- Ensure open and fair competition because the ENUM tree in DNS is a monopoly (4.4.e164.arpa)
- Avoid dominance by bigger players
- Safeguard interests of public and users

## DTI's Objectives for ENUM - 2

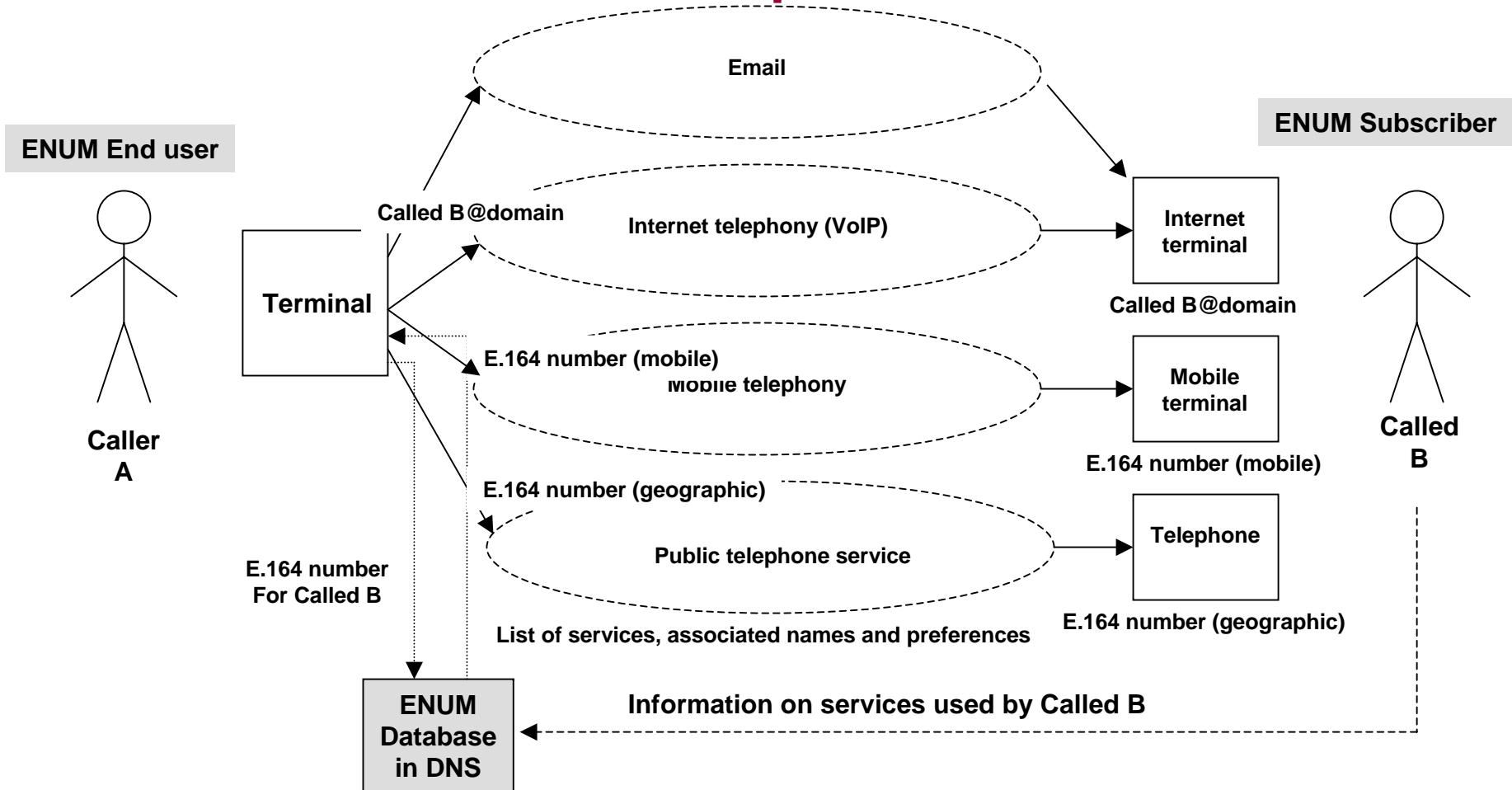
- Avoid regulation of identifiers on the Internet (this is against current government policy)
- Provide a suitable and stable framework for ENUM
- Allow the market to actually run ENUM through a cooperative model
- Allow the market to determine its success



## Part 2

# ENUM structure in the UK

# The ENUM Concept



# ENUM data example

SMS to +447765402268

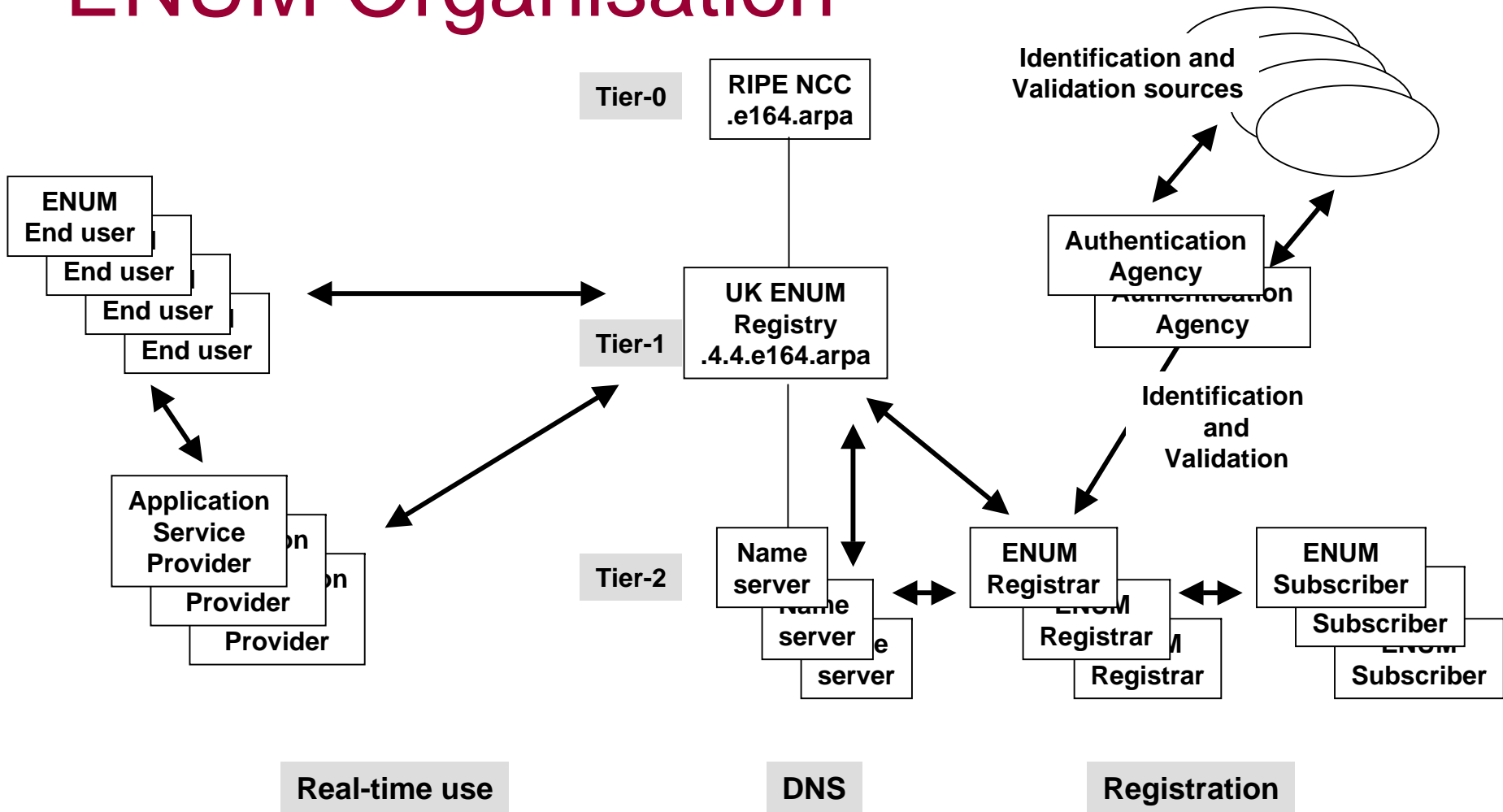
POTS to +441794833303

SIP to 3666@voip.srmr.co.uk

EMAIL to mike.hook@roke.co.uk

WWW to www.roke.co.uk

# ENUM Organisation





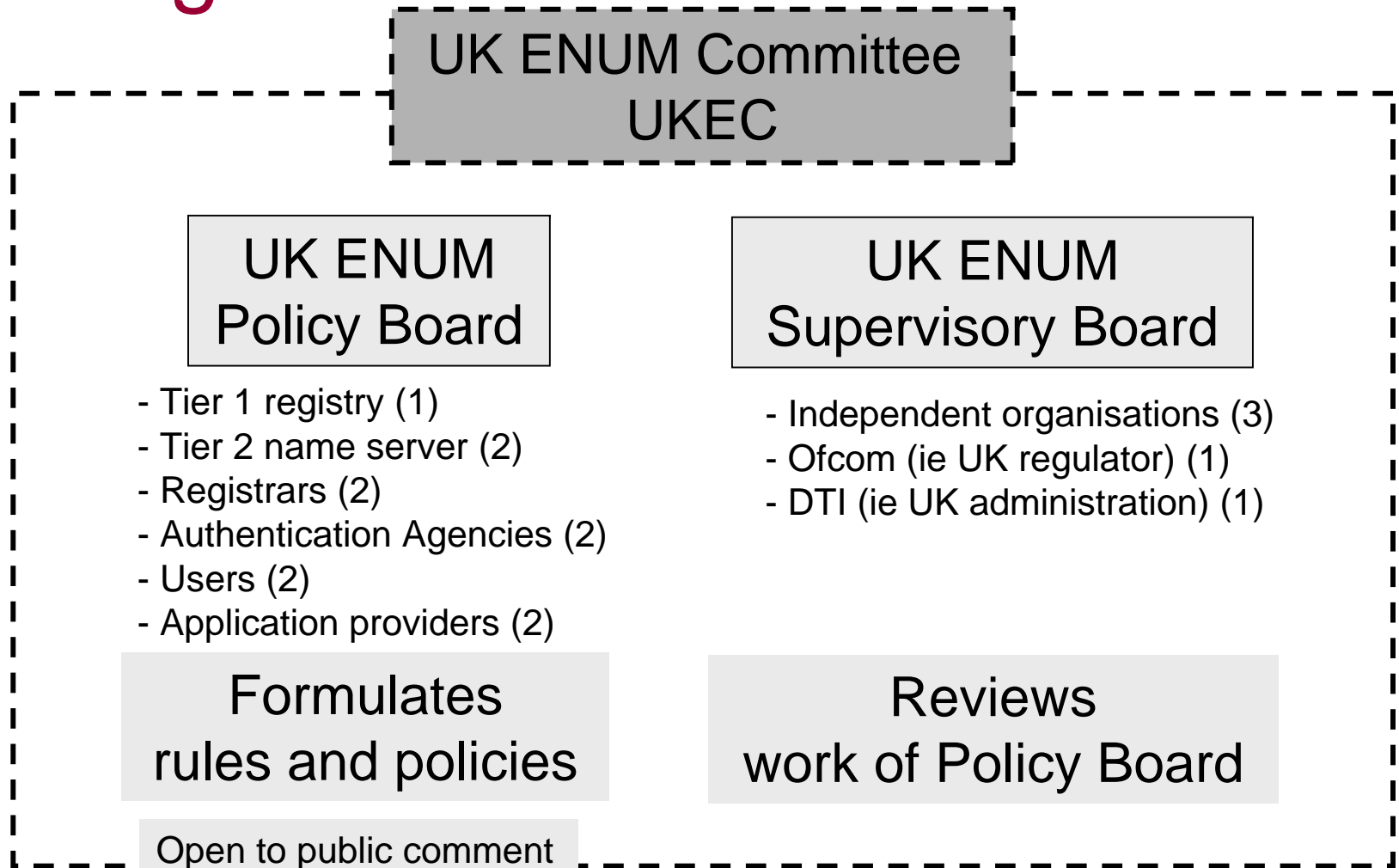
## Part 3

Issues in more detail

# Maximise scope for competition

- ENUM Tier 1 Registry is a monopoly
- Tier 2 ENUM Registrar is open competition
- Tier 2 Name Server is open competition
- Application Service Provider is open competition
- Authentication Agency is open competition
- Validations are unique but alternative options - avoid dependence on telco who allocated the E.164 number

# Management



# Appointment of Tier 1 Registry

- Main decision for UKEC
- Competitive tender
- Independent evaluation by panel reporting to Supervisory Board
- Appointment under contract for 4-6 years
- Complete separation from Tier 2 level
- No criterion on legal status (commercial, not for profit etc)

# Criteria for Choosing a Tier 1 Registry Provider

- Services offered
- Level of charges
- QoS targets and methods of handling problems
- Experience in similar roles
- Financial strength and adaptability
- Understanding of ENUM
- Ability to innovate
- Competence in running a registry

# Tier 2 Registrars

- No “a priori” accreditation
- Run under a Code of Practice
- Supervisory Board handles complaints and can disqualify

# Subscriber control and authentication

- Identification - who the subscriber is
- Validation - right to use the E.164 number
- Telcos can identify and validate, but may not want to
- Various alternative methods of checking bills, directory enquiry, using number portability process (not database), calling back
- Area most likely to change as a result of responses to Consultation

# Privacy

- Based on “opt-in” to use by owner of an E164 telephone number
- Must conform to Data Protection but no extra requirements
- No WHOIS lookup

# New number range for ENUM

- Range created in Austria and considered in other countries
- Provides ENUM Services to people without stable E.164 number, eg students
- Indicates to users and application service providers that there is an ENUM entry
- Ofcom will consider comments and decide

# Other ENUM-like Systems

- Current interest in Infrastructure ENUM to link VoIP services (Internet Phone Alliance, Neustar, SIPGate)
- Scope for competing infrastructure systems
- DTI neutral (permission for system not needed)
- Not the subject of the consultation
- May become main area for “ENUM”

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Any questions?