RIPping into ISPs

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What ISPs don’t care about (much)

- Part II - informers, stakeouts and buggers
- Part III - seizing plaintext & encryption keys
  - We won’t be holding keys
  - What we sell will be end-to-end encryption
    - What the customer needs
    - Experts will not carp
    - We can’t afford the premiums!
  - But, we want a proper “techie” defence in 50(8)
What ISPs do care about  (a lot)

• Part I - Chapter I
  Interception & interception warrants
  Section 12 notices

• Part I - Chapter II
  “Communications data”
  Section 21 notices
Interception (Chapter I)

- Everyone must co-operate, whether a public or a private system \(5(1)(a)\)
- Don’t have to do anything impractical \(11(5)\)
- SoS will say what is required of public systems using a Section 12 notice \(12\)
- Practical includes anything the SoS said \(11(6)\)
- SoS can pay, but is not required to \(13\)
Value for Money?

- Police want email - but techies raise the stakes by looking for 100% solutions
- Pre-set requirements likely to involve pre-positioning of kit
- Cost is not just the kit but also the opportunity cost
- Interception of IP streams is best done in the Telco domain (usually known & fixed)
Communications Data (Chapter II)

- Day to day interactions with the police
- Real world addresses … MrWobbly@thus.net \textit{20(4)(c)}
- Lists of calls that were made \textit{20(4)(b)}
- Addresses - defined as anything attached to messages for the purposes of the system. So includes: MAIL FROM, RCPT TO, Received: IP Address, Port number, Protocol… \textit{20(4)(a)}
- This is “traffic analysis” or COMINT and will be \textit{de rigeur} in the encrypted future
Chapter II: Safeguards?

• No central control of the scope 24(3)
• No protection of seized data n/a
• No test of practicality n/a
• No public/private distinction 24
• No payments guaranteed 23(1)
• No standards for notices 22(1)(a)
• Any crime or even just “disorder” 21(2)

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Where are we now ?

• Chapter I: Waiting for Regulations

  Experience shows us that we shall need at least TWO rounds of consultation

• Chapter II: Waiting for some common-sense

  Unfettered powers will lead to significant costs to ISPs and significant loss of privacy to users