

# **Telecoms Industry Emergency Planning Forum**

- Chaired by the Cabinet Office Central Sponsor for Information Assurance
- All fixed & mobile network operators, LINX, DTI, CCS, NISCC & Ofcom
- Memorandum of Understanding and Confidentiality Agreement
- Information sharing and co-operation
- National Emergency Alert for Telecoms (NEAT)
  - invoked on 29<sup>th</sup> March 2004 (Manchester fire), 7<sup>th</sup> July 2005 (London bombings) and 11<sup>th</sup> December 2005 (Buncefield oil depot)
- National exercises in January 2005 and January 2006



# Industry response to the crisis

- Protecting the integrity of the critical national infrastructure
- Supporting the Emergency Services
- Maintaining voice, data and text transmission for customers
- Maintaining close contact with the Regulator and Government



### **Network congestion - management controls**

- Half rate encoding doubles the radio interface capacity at the cost of call quality
- Call gapping on the fixed networks to all 07 number ranges
- Access Class Barring largely automatic when congestion in MSCs
- Removal of Paging relieves load on MSCs
- ACCess OverLoad Control variation on Access Class Barring which restricts use within a defined area to emergency responders only

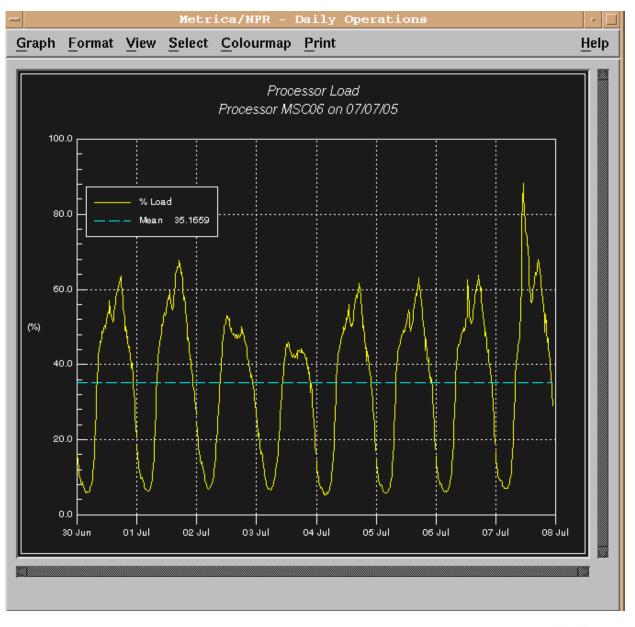


# London – 7<sup>th</sup> July

- Networks heavily congested from mid-morning to late evening
- Half rate applied across central London to provide additional capacity
- Call gapping agreed with BT on 07 number range
- National SMS traffic 41 million messages went up to 49 million (+20%)
- London voice traffic normally 7 million calls went up to 11 million (+57%)



### **Switch traffic**





# **Problems arising**

- Half rate encoding works well for smaller-scale incidents, but not in this case as it rapidly became a large-scale incident
- Call gapping could have been applied sooner
- ACCess OverLoad Control caused problems as not all emergency responders were equipped with the correct SIM cards



#### **Lessons learnt**

- Up-to-date list of key contacts
- Checklist of key activities
- Specific rôles and responsibilities
- Detailed record of what happens and major decisions with times
- Don't do something because it worked last time wait and see
- Availability of live performance data
- Bring in second Network Controller to liaise with TI-EPF
- Maintaining staff levels, provision of food, etc.
- Increased performance of individuals



#### **Questions?**

David Sutton MSc MIEE SBCI Network Continuity & Restoration Manager O2 (UK) Limited

david.sutton@o2.com

