

# ISS Webinar – 13<sup>th</sup> may 2008 Identification of Nomadic Targets

Presented by Vincent BARRY VP Global Sales

# **Solutions to current Challenges**



## What is the common Telco/ISP investigative link? The electronic 'DNA'

- CDR's, IP Metadata, RADIUS logs
  - A identifier, B Identifier, Operators, Cell (or ISP) Location, Time on/off, other more technical info (trunk ID's, Server IP addr, bytes sent/rec, MAC addr, type of service)

#### Using Intelligent Systems to analyse massive amounts of data – CDR/SMS/IP-Metadata/IP-Logs

- Ability to profile target behaviour
- Identify multiple SIM/Handset/Device usage
- Rules engines to extract patterns and known Identifiers
- Easy to use not assume technical genius at k/b
- Data to Charting fast to display complex device pattern, relationships

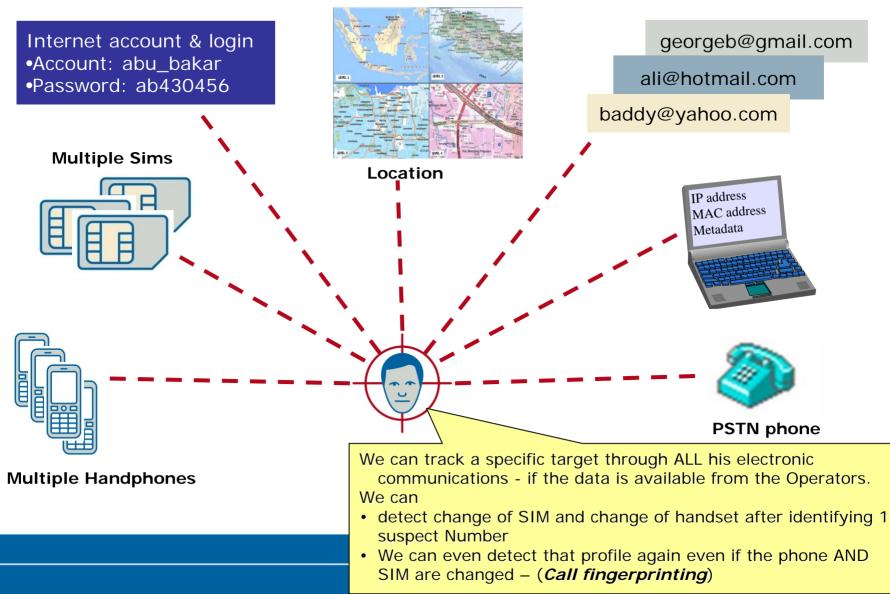
#### Location Tracking System- GSM/CDMA

- Passively track 'visiting' subscribers identify specific roamers/country/target ID
- Alerts on known devices/numbers
- Geo Fencing against known/new mobiles and areas of interest/concern

# How we can identify targets



# **Profiling on Telecommunications identifiers**

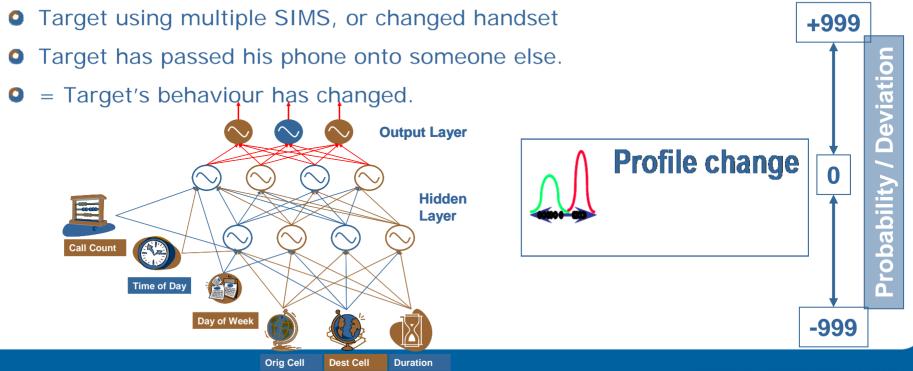


# Profiling

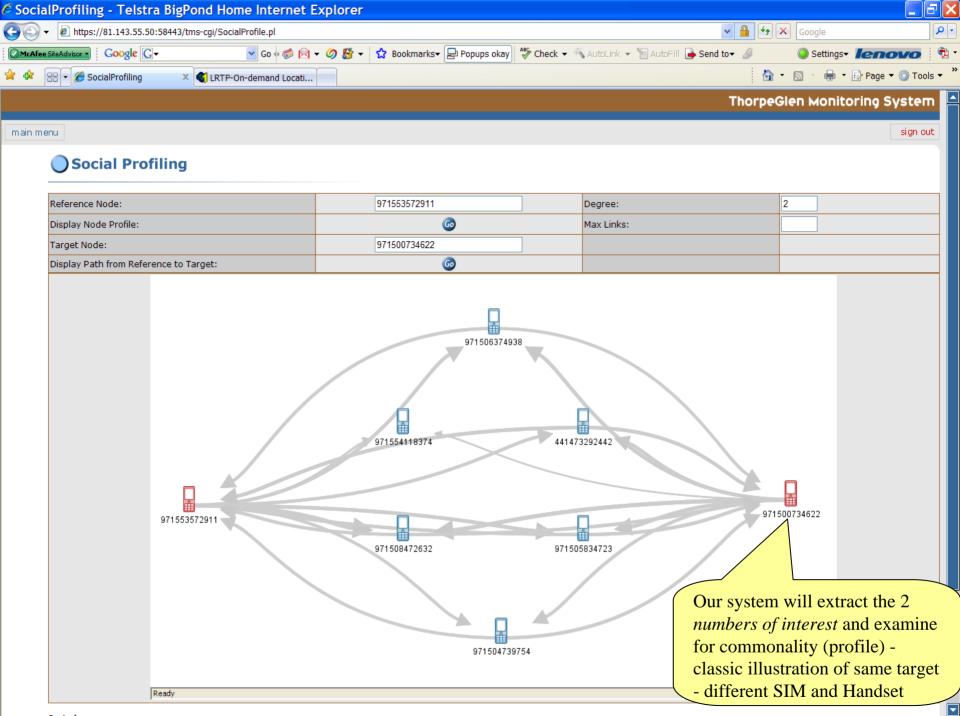


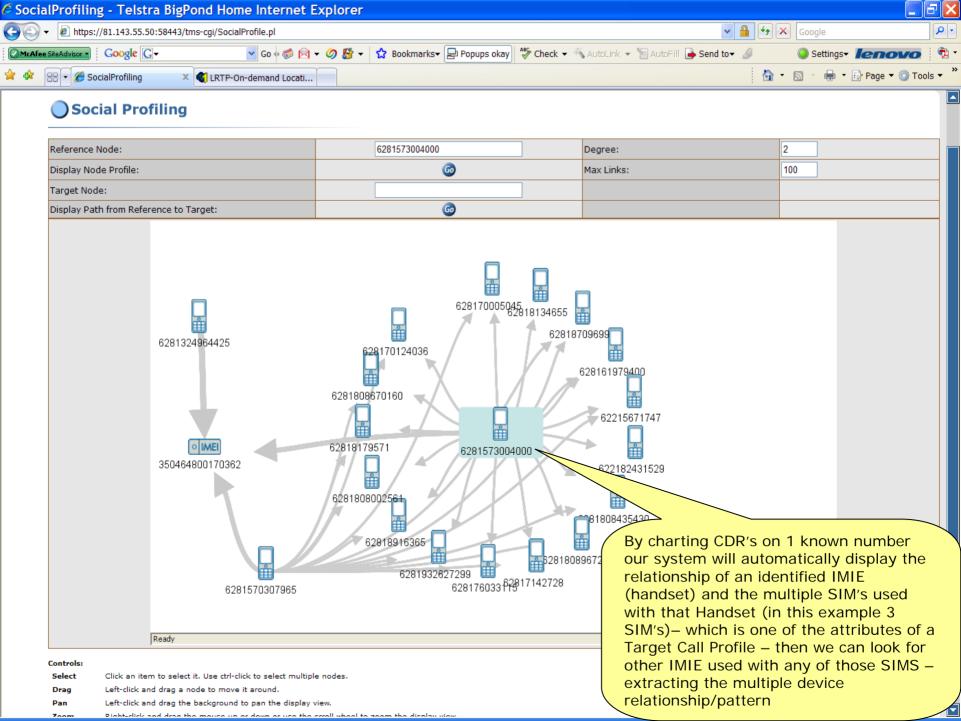
- Compares Telecomms behaviour of a Target or device with stored historical profile
- Searches for deviations from normal behaviour
- Uses ThorpeGlen patented processes -statistical engine data analysis

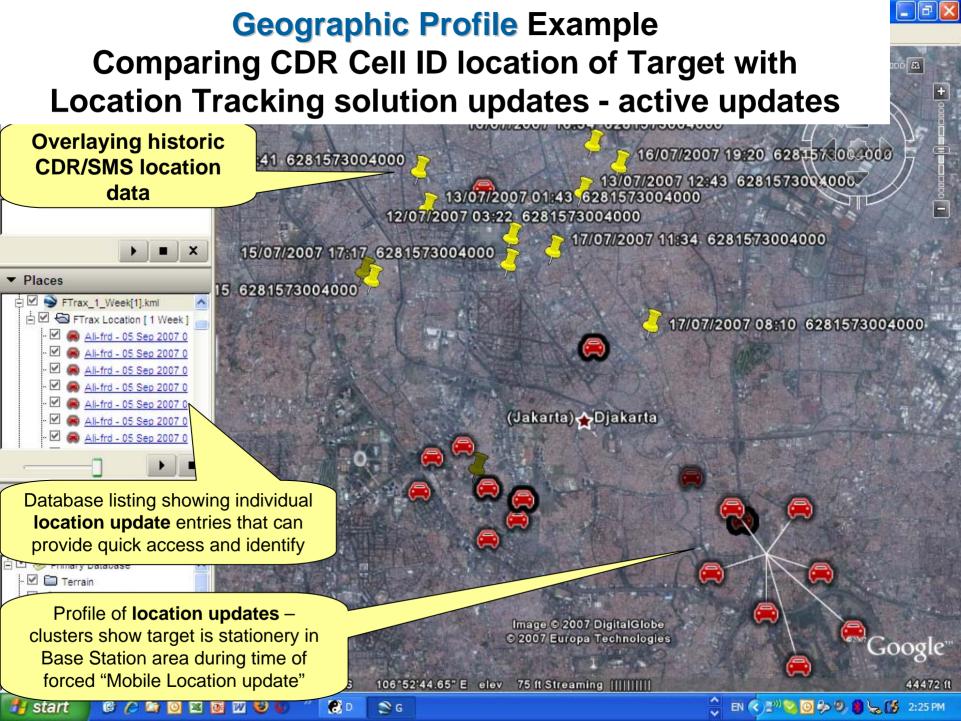
# **Examples**



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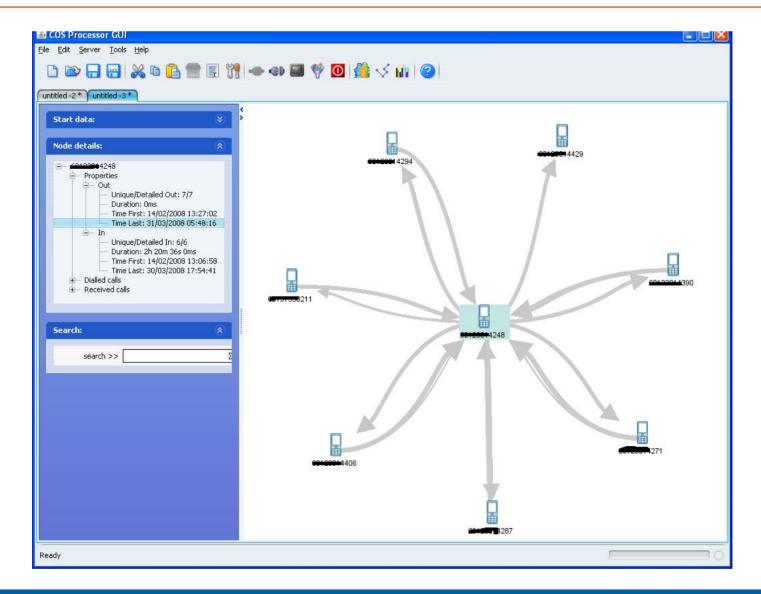
# New Developments -Finding Cliques (people Cells) within mass data

Identifying Cliques (groups that only talk amongst themselves)

- Everyone on a Telephone network is part of a group
- Most groups talk to other groups/individuals/nodes
- Example we have already researched
  - We processed all the CDR's from all subscribers (1 week) in a Mobile network we have access to
  - Over 1 billion per day x 7 days = 8 billion + events
  - 1 operator 50 m subscribers
  - 48 m 1 large group
  - 400k large nodes (services, shops, info numbers, etc)
  - Remainder we graded the remaining groups into size (largest to smallest) they ranged in size from 2 to 142 subscribers
  - Identified a number of groups that
    - only call each other never to other numbers
    - No-one ever calls their numbers
    - WHY??

## **Clique Example**





SERIOUS CRIME SOLUTIONS



# Thank you

Further information and discussion:

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