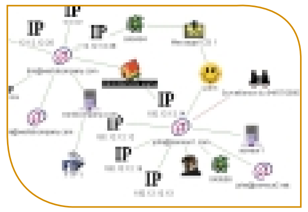
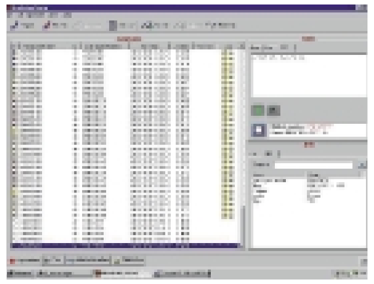
MONITORING CENTRE

Creating added value intelligence reports implies a permanent matching and crossing of information sources. To send and receive its Internet data, a target may use successively a mobile phone, a fixed phone, a portable satellite phone... The monitoring centre as the focal point (the Spyder in the net) of the Spyder family is common to Net Spyder, Sat Spyder and Cell Spyder and is the place where the data fusion occurs.

- Monitoring centre major functionalities are:
  - Data storage.
  - Data replay.
  - Data fusion whatever the origin.
  - All kind of Internet protocols are processed in the monitoring centre:
    - e-mail.
    - Web.
    - News forum.
    - Voice over IP.
    - e-commerce.
    - m-commerce.
    - File transfer.
    - Video conferences...
  - Analysis and exploitation:
    - Geographical data exploitation systems (location of the targets).
    - Data mining, text mining.
    - Target networks analysis.



CLIENT STATUS



- Intelligence agencies and security services.
- Police and Law Enforcement Agencies.
- Other government organisations.
- Telecom Operators.
- Internet Operators (access providers, service providers).

THALES

THALES Communications

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NET SPYDER

INTERNET COMMUNICATIONS MONITORING

Monitoring Internet communications is today a strategic challenge for Law Enforcement Agencies world-wide.
As the use of Internet is pervasive (home, office, travels, cybercafés...), Net Spyder, state of the art in Internet monitoring, proposes a wide range of solutions to ensure the global monitoring of Internet targets.

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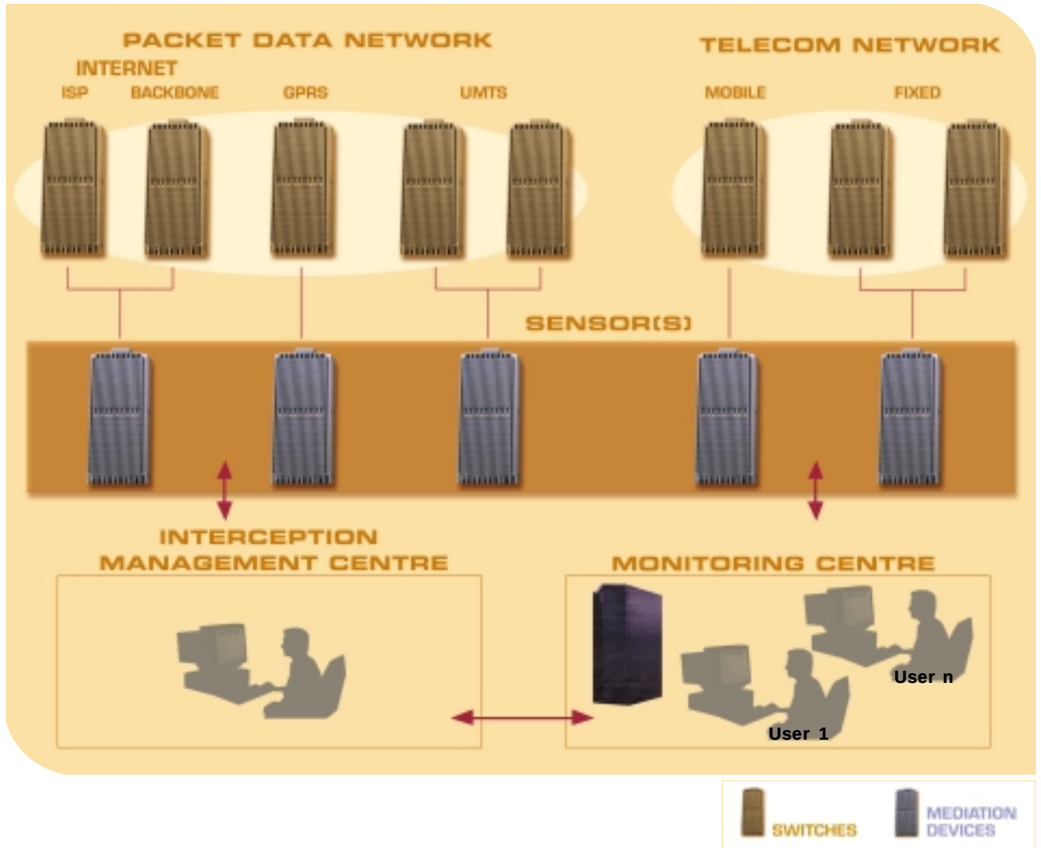
Net Spyder performs a complete monitoring of a target using Internet, whatever might be the target's identification login and location (home, local exchange, Internet service provider, roaming, cybercafés...)

NET SPYDER OPERATES WITH:

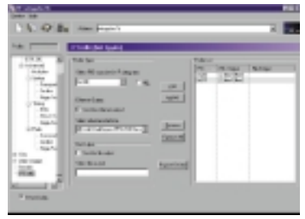
- Telecom networks (local loops, local exchanges, maintenance networks...).
- Internet access providers and / or Internet Service Providers (ISPs).
- Packet data networks.

SYSTEM COMPOSITION

As the others members of the Spyder family, Net Spyder has three main logical functions:
- Interception Management Centre (IMC).
- Sensor.
- Monitoring Centre (MC).



INTERCEPTION MANAGEMENT CENTRE



- The IMC enables two kinds of Internet interception:
  - Internet user traffic interception
    (e.g. IP traffic, ATM traffic, DVB traffic...).
  - Internet service interception
    (e.g. e-mail, user connected or not to his e-mail box, chat room, web server...).
- IMC major functionalities are:
  - Targeting (IP address, e-mail address, telephone number (MSISDN, IMSI...), MAC address...).
  - Managing the Interception Related Information (IRI).
  - Mediation function towards the network entities involved in interception process (router, switch, server, database, billing system...).
  - Management of the interception process:
    - Monitoring of the interception system (administration).
    - Separate management of different Law Enforcement Agencies (LEA).

SENSOR

Data collection is achieved through other Spyder systems
(as Sat Spyder, Cell Spyder, RF Spyder) as well as Net Spyder dedicated sensors.

Net Spyder sensors interface with numerous network components:

- On the local loop:
  - Dial-up.
  - xDSL.
  - Radio local loop.
  - Cable modem.
  - VSAT...
- In the Internet provider premises:
  - Switch.
  - Router.
  - Server.
  - Database...
- In the Internet backbone:
  - Satellite.
  - Microwave.
  - Cables.
  - Routers...

Sensor major functionalities are:
- Data collection.
- Format the collected data.
- Transfer of the data collected to the Law Enforcement Agencies monitoring centre.