



# **NIT**

## **Network Investigation Toolkit**

**The Most Powerful Tool for Internet Content  
Monitoring and Forensics Analysis  
Combined with both LAN and WLAN Interception**



**Email**



**Chat**



**Web**



**FTP**



**P2P**



**TELNET**



**Video Stream**



**Online Game**



**VOIP**



**HTTPS/SSL**



Network Investigation Toolkit (NIT) is designed specially for LEA such as Police, Military, Criminal Investigation Agencies, National Security Agencies, Cyber Security Agencies, Counter Terrorism Department, Forensics Investigator etc. to conduct network based forensics investigation whether it is on a wired or wireless LAN networks.





## Application Flow



## Wireless Interception

### Information obtainable from a WLAN AP/ Wireless Router:

1. BSSID of AP (MAC address)
2. Channel
3. The number of STAs
4. The number of encrypted packet
5. The number of data packet
6. Additional information of AP (the manufacturer of AP, the manufacturer of AP IC component has to be authenticated through international registration)
7. Noise level and signal level
8. SSID or ESSID
9. Type of Wireless LAN: Probe, Ad-hoc or Infra-red
10. WEP (wired equivalent privacy protocol) status
11. The amount of transferred Wireless LAN packet

### Information obtainable from a station (STA) includes:

1. The number of encrypted packet through this STA
2. The number of packet through this STA
3. IP Address of STA
4. MAC Address of STA
5. The manufacturer of STA (the one has been authenticated)
6. The highest transferring rate of STA
7. Noise level and signal level of STA
8. Type of STA (Established, To-DS or From-DS)

## Wired Interception

### 1. Supporting Throughput/Load :

Up to 350 Mbps

### 2. Appliance Based : Yes

### 3. Deployment :

Mirror Mode, Bridge Mode, Sniffer Mode

### 4. Services/Support 150 Protocols :

Email (POP3, SMTP, IMAP), Webmail (Yahoo(Standard and 2.0 versions), Gmail), Instant Messenger/Chat (Yahoo, MSN, ICQ, AOL, QQ, Gtalk, Skype), HTTP, FTP, P2P (P2P Details Log-BitTorrent, eMule/eDonkey etc.), Online Games, Telnet / BBS, VOIP (IM), Webcam, VOIP (Standard), HTTPS

### 5. System Access :

HTTPS Remote Monitoring

### 6. Group/User :

Yes, with Authority Management function.

### 7. Data Backup : Yes

Restore Server, NAS/SAN based FTP server etc.

### 8. Web Browser Access :

Yes (using IE, Mozilla etc.)

### 9. Data Mining and Search :

Free Text Search, Condition Search, Similar Search Function, Association Search

### 10. Alert/Notification : Yes

Alert/Notification by parameters, by Key Words

### 11. Throughput Alert : Yes

### 12. Station Management :

Yes (NetBIOS, Active Directory info)

### 13. Storage Management : Yes

### 14. Upgrade :

Web based Upgrade

### 15. Reports : Yes

Comprehensive reporting. Total throughput statistical report with top-down view. Per user reporting with top-down view.

### 16. Schedule Reporting : Yes

Provide daily log report in Excel format



# Administration and Management (sample screenshots)

## 1. Scanning Available Wireless Networks



## 2. Import Analysis - WEP Decryption



# Internet Raw Data Reconstruction (sample screenshots)

## 1. Email - Webmail



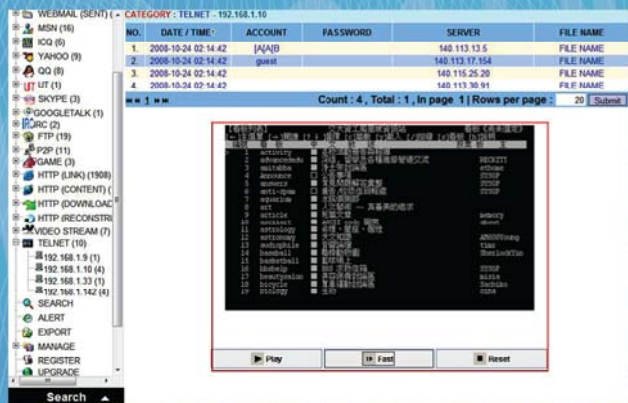
## 2. IM - Chat



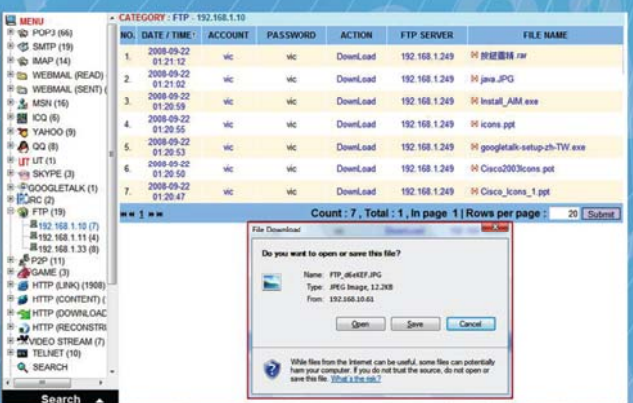
## 3. HTTP - Web Browsing



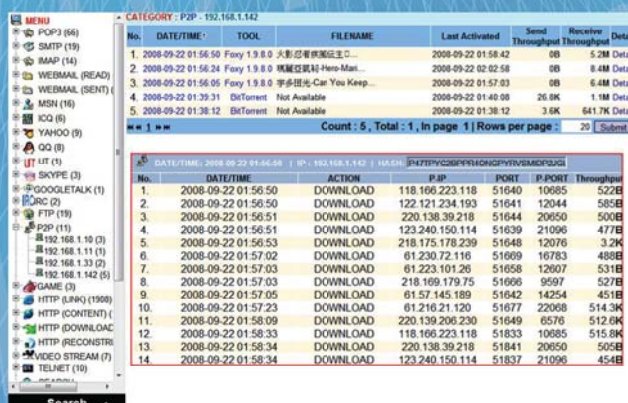
## 4. Telnet



## 5. FTP



## 6. P2P





## Who benefits from **Network Investigation Toolkit System** ?

<b>WHO</b>	Human Resources Case Developer Computer Forensics Examiners Banking and Financial Institution Prosecutors	Fraud Examiners White Collar Crime Units Gang Units Homeland Security Legal Units	Educational Institution Enterprises Government Corporation
<b>WHAT</b>	Source Code Employee Information M&A Plans Business Plans Patient Information	Financial Statement Competitive Information Technical Document Intellectual Property Databases	Students' Records R&D Design P&L Report Customer Records
<b>WHERE</b>	Benefits Providers Chart Board Business Partners	Blog Customers Spyware Site	Competitors Terrorist
<b>HOW</b>	Email and Webmail Web - HTTP Instant Messaging / Chat	File Transfer - FTP, P2P HTTP Upload/Download	Online Games Telnet

NIT is a portable unit (laptop based) of appliance with comprehensive network forensics features which can be carried at any location for network based investigation task. NIT can be used to intercept on targeted networks or users to collect the necessary evidences and trace out the source of communication. The unique capability of this system is its combination of various features and functions to conduct LAN real-time interception, WLAN real-time interception, HTTPS/SSL MITM interception on both LAN and WLAN networks as well as offline analysis and reconstruction of pre-captured raw data files.

## **Network Investigation Toolkit Model**

Model	Photo	HDD Size	RAM	Coverage
Network Investigation Toolkit System		160G	1G	Indoor = 0 - 20 meters Outdoor = 0 - 60 meters (line of sight)

## **System Description :**

1. Appliance laptop with both Internal-WiFi adapter and LAN adapter
2. 4 x External USB WiFi adapter ( For up to 4 WLAN Channels Capturing)
3. 1 x USB Hub ( Active one )
4. 1 x 3.5G / HSPDA ( Supplied by local operator)

**Note :** We accept customization request for special project design. We welcome OEM and ODM partners, distributors and resellers across the world.

Distributor / Partner :



### **DECISION GROUP**

URL : [www.decision.com.tw](http://www.decision.com.tw)  
[www.edecision4u.com](http://www.edecision4u.com)

Address : 4/F No.31, Alley 4, Lane 36, Sec. 5,  
Ming-Sheng East Rd, Taipei Taiwan ROC.

Pone : +886 2 27665753 Fax : +886 2 27665702

Email : [decision@decision.com.tw](mailto:decision@decision.com.tw)  
[decision@ms1.hinet.net](mailto:decision@ms1.hinet.net)