within a specific time period, and also to provide a clear way into the network and geographical location of the attacker.

**Correlation and Integration**

The attack detector tool can find the location of the attacker by integrating its results with other packet spoofing tools. An investigator can integrate it with other tools in order to identify spoofed packets and to find out the location of an attacker. Also, the investigator can correlate data from control channel detectors and flood detectors to identify which control channel established which flood and to observe spoofed signals from hop to hop or from the attacker to the server.

**Path Identification (Pi) Method**

The major part of the Pi method is to determine the path of each packet and filter out the packets that have the attack path. It can be used to identify the attack packets with filtering techniques and to analyze their path. It suggests routers to mark information on packets toward the victim. Pi is better than traceback mechanisms if the following are true:

- The victim can filter the packet independently from other upstream routers.
- The victim decides whether to drop or receive each packet.
- It is easier to determine the packet’s source.

Pi considers the following four factors of marking to mark a path between the attackers and the victim:

1. Which part of the router's IP address to mark
2. Where to write the IP address in each packet’s ID field
3. How to neglect the unnecessary nodes in the path
4. How to differentiate the paths

**Packet Traffic Monitoring Tools**

The source of the attack can be identified by monitoring network traffic. The following are some useful traffic monitoring tools:

- Ethereal
- Dude Sniffer
- Tcpcap
- EffeTech
- SmartSniff
- EtherApe
- MaatMic Network Analyzer

**Tools for Locating IP Addresses**

After getting the IP address of the attacker’s system, an investigator can use the following IP address-locating tools to give details about the attacker:

- Traceroute
- NeoTrace
- Whois
- Whois Lookup
- SmartWhois
- CountryWhois
- WhereIsIp