Kindsight™

Kindsight Security Analytics

Pinpoint device infections of fixed and mobile subscribers

Kindsight Security Analytics allows service providers to pinpoint infections in the subscriber's home networks and mobile devices and then take action on these findings to protect the network and subscribers with improved security policy and network operations.

Malware is growing exponentially

Malware in both fixed and mobile networks is growing exponentially. In Q2 2012, Kindsight Security Labs reported that 14% of home networks were infected with 9% having a high threat level which was an increase of 50% over Q1.

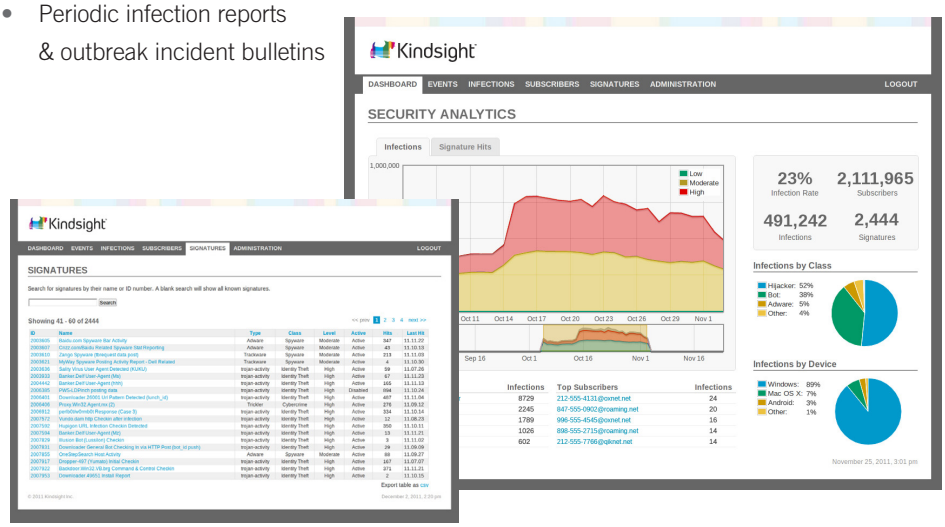
As smartphone use grows, mobile malware continues to skyrocket as well; Kindsight Security Labs reported a threefold increase in Android malware samples in Q2 2012. There clearly is a problem that affects both subscribers and the service provider's network.

Pinpoint infections to protect the network and subscribers

The Kindsight Security Analytics platform analyzes fixed and mobile Internet traffic for malware, generates aggregated statistics and allows the service provider to drill down to specific subscribers, pinpoint infections and discover why a particular device could be behaving anomalously.

These security statistics are available on a dashboard for easy review and include:

- Number of infected devices
- Malware types observed
- Historical trends, frequency, and recency of specific malware
- Malware behavior summaries
- Periodic infection reports & outbreak incident bulletins



Improve Service Experience

Infected devices can cause sub-par performance or unexpected data charges that result in unhappy subscribers calling customer service and the billing department. By taking actions to detect and block the malware, you will improve the service experience and reduce subscriber churn.

Reduce Network Risks

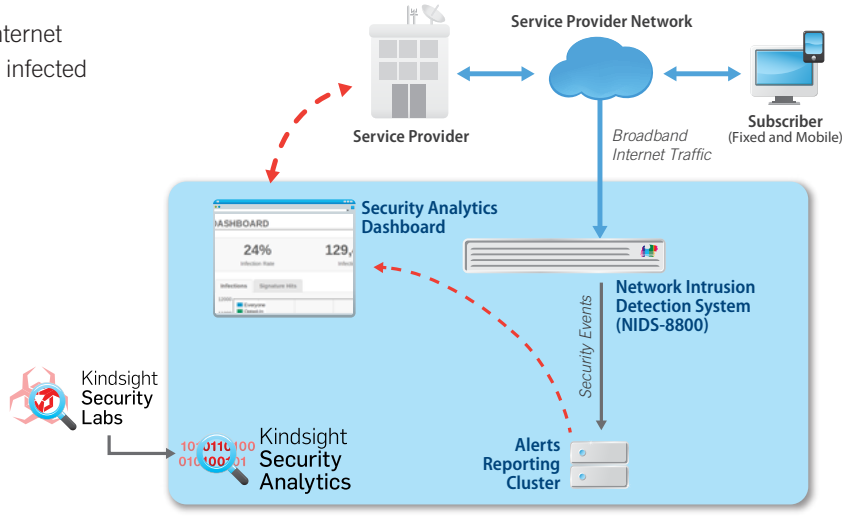
By generating statistics and insights into the extent and type of infections among your subscribers, network operations and/or the security abuse team can develop policies to address the issue. This reduces the risk to your network and and diminishes the malicious consumption of network resources.

Launch New Services

Leveraging the same platform, service providers can quickly offer revenue-generating, network-based security offerings, with Kindsight Security Services, where the service provider notifies and helps the subscriber remove the malware from the device and the network.

How Kindsight Security Analytics Works

Kindsight Security Analytics analyzes fixed and mobile Internet traffic for malware and generates aggregated statistics of infected subscribers. Here are the components in the system:



- **Network Intrusion Detection System (NIDS-8800)**
  Sensors are deployed at strategic locations within the service provider network, typically at an aggregation or peering point, to analyze traffic for evidence of malware infections without impact on network performance.
- **Alert Reporting Cluster (ARC)**
  The cluster contains several components that are installed at the service provider's datacenter to process and store events from the sensors. It also triggers real-time actions against malware detected in the network.
- **Security Analytics Dashboard**
  A web-based dashboard displays data in real-time, sharing the extent and types of infections found among subscribers, with the ability to drill down and take action. The dashboard delivers: the number of infected devices; malware types observed; historical trends, frequency and recency of specific malware; malware behavior summaries; periodic infection reports and outbreak incident bulletins.
- **Signature Update Service**
  Backed by the proven signature development and verification process of Kindsight Security Labs, the signature set provides thorough coverage with low false positives and is continually updated as the foundation of the Kindsight Security Analytics platform.

Why Kindsight Security Analytics

Kindsight has developed advanced technologies for network-based malware detection with the following advantages found in the Kindsight Security Analytics platform:

Network-based signatures
that detect and pinpoint subscriber infections with low false positives which are continually updated by Kindsight Security Labs.

High performance network sensors
that support 20Gbps of traffic analysis, 100,000+ event per minute and scales to hundreds of millions of subscribers.

Dashboard for real-time insights
into the extent and type of infections found among your subscribers including the ability to drill down to additional details and take action.

About Kindsight

Alcatel·Lucent

Kindsight, a majority-owned subsidiary of Alcatel-Lucent, offers network-based security products that are deployed by Internet service providers and mobile network operators to detect threats, send alerts, block infected devices and protect subscribers. Backed by the expertise of Kindsight Security Labs, the Kindsight Security Analytics solution analyzes Internet traffic for malware and pinpoints infected devices to identify risks and take action. To generate revenue and increase brand loyalty, the white-labeled Kindsight Security Services enable operators to launch differentiated, value-added services that combine network-based and device-based security for complete protection. Visit www.kindsight.net for more information.

Kindsight™

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