



OPTENET SECURITY SOLUTIONS FOR MOBILE OPERATORS

Real-time protection against mobile threats for Mobile operator users

Optenet Security Solutions for Mobile Operators is the most comprehensive range of high-end virtual security services that protects mobile subscribers from spam, phishing, and virus attacks originating from the Internet or other mobile networks. Our industry-leading accuracy and real-time response drive higher customer satisfaction and lower support costs.

FUNCTIONALITIES

WEB/WAP FILTER

ADS FILTER

AUTOMATIC NOTICES

ANTIPHISHING

ANTISPAM
(POP3/SMTP/MMS)

ANTIVIRUS

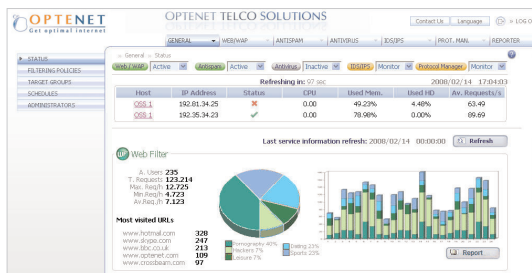
ANTISPYWARE

ANTIMALWARE

PROTOCOL
MANAGER

REPORTING

REAL-TIME
MONITORING



Centralized administration console

The screenshot shows the configuration interface for the security services. It features a table with columns for 'Enabled', 'Service', 'Policy', 'Target Group', 'Profile', 'Action', and 'Schedule'. The table lists various services like 'Antispam', 'Antivirus', and 'Protocol Manager' with their respective configurations.

Optenet Security Solutions for Mobile Operators brings together the most advanced content filtering, antispam, antivirus, antiphishing and protocol management services in a single platform. Each component includes Optenet's proprietary technology based on artificial intelligence techniques that have been in constant development for the last ten years. The solution enables Mobile Operators to centralize management of all security services, as well as gather strategic information on end-user tendencies and habits, using exclusive behavior analysis functionalities.

- Protect your network from virus and malware attacks
- Increase ARPU, and protect existing premium content revenue
- Reduce support costs
- Reduce customer churn from virus threat
- Maintain high Quality of Service

CCOTTA™ TECHNOLOGY

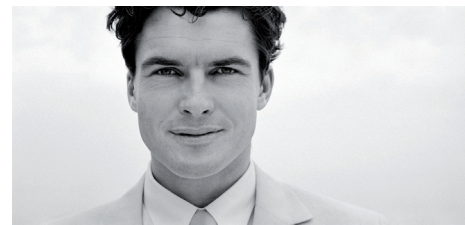
The product incorporates Optenet's proprietary technology, CCOTTA™ (Carrier Class Optenet Transparent Traffic Analyzer), which intelligently manages traffic between the various security modules that make up the suite. CCOTTA intercepts, analyzes and identifies inbound and outbound traffic, covering level 2 (data link) to level 7 (application) of the OSI model. Once the nature of the traffic has been determined, CCOTTA redirects it to the most appropriate

security module, which then applies the security policies specified for that type of traffic. Through this advanced intelligent management engine, all modules work together in complete harmony as a powerful UTM tool (Unified Threat Management). This system offers total scalability and redundancy (which can reach up to 99.999% of up-time depending on the configuration). Optenet Security Solutions for Mobile Operators's functionalities are all managed using a powerful centralized administration console that is independent of the deployment.

BUSINESS BENEFITS

- Fosters **customer loyalty** by offering a variety of network connection related services.
- **Higher revenues: sales conversion rate is between 5 and 10 times** higher than a service that requires customers to install the software themselves.
- **Immediate incorporation of updates**, version control and new functionalities for all customers.
- **Dramatic savings on costs and customer support** as no software has to be installed.
- Enhances the image of a **secure provider**.
- **Maximum sales opportunity**. Service available to all customers, regardless of their network access platform (PDAs or mobile phones).
- Highly **reliable** due to its distributed, flexible and redundant architecture.
- **Performance** between two and eleven times faster than our main competitors and with more functionalities.





Web/WAP Filter

Optenet Web/WAP Filter uses the latest technology in Intelligent Content Analysis in order to filter more accurately and in multiple languages, obtaining the highest levels of effectiveness on the market (97%). Through the use of artificial intelligence techniques, the web filtering solution reduces dependence on URL lists and adapts to the dynamic nature of the Internet. The online unblocking system resolves any over-filtering error within 15 minutes and the reporting function makes supervision of Internet activity a breeze. It also allows browsing without adverts, GIFS, pop-ups, etc. Based on this analysis, operators can program tailored alerts or notices for customers, using a powerful **Automatic Notices** tool. Additionally Optenet has developed a program that prevents **phishing** attacks by combining the technologies used for Web filtering and Antispam.

Antispam (POP3/SMTP/MMS Filter)

Optenet Antispam employs Intelligent Multilanguage Content Analysis to block spam. The level of false-positives is less than 0.4% and this is eliminated completely through the use of a quarantine module. Optenet Antispam achieves effectiveness levels of 97%. The solution processes up to 1 million messages/hour/server, with unlimited scalability. Besides SMTP and POP3, OPTENET integrates with the **MM1, MM3, MM4 and MM7* interfaces**.

** For MM7, given the variety of vendors and resultant lack of standardization, Optenet requires details of the actual interfaces and architecture in place before committing to the delivery of a product with the full described functionality.*

Antivirus/Antispyware/Antimalware

Optenet integrates the antivirus technology of Kaspersky Lab, which continually updates its antivirus database and develops antivirus tools through its rapid-response security structure. Optenet Antivirus achieves maximum effectiveness rates, minimal error rates and has the best response time to new threats. Additionally, the engine includes highly effective antispyware that is also continuously updated.

Protocol Manager

The Protocol Manager was designed to analyze and identify communications that use applications popular with users in general: **web, mail (POP3, SMTP, IMAP, etc), instant messaging (MSN, ICQ, Yahoo IM, etc), VoIP (Skype, etc), streaming, anonymizers, etc**. While other products classify communications based on the IP addresses used, Optenet goes one step further and analyzes the content as well. This is how Optenet manages to offer a service that is not only easy to use but that also provides security levels superior to its competitors, since it can block unauthorized communications even when they do not use the usual addresses and/or ports. Optenet also supports **Quality of Service** and **Bandwidth Management** functionalities by protocol and/or user.

Reporting/Real-Time Monitoring

Optenet also includes the fastest monitoring and specialized real-time report generation systems on the market, capable of providing an exhaustive analysis of subscriber Internet use from various angles (browsing time, trends and habits; data broken down by user or user group).

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ENABLING TECHNOLOGY

Optenet has designed the Carrier Class Optenet Transparent Traffic Analyzer (**CCOTTA™**) as the optimal solution for seamless integration of Optenet services within the Operator's network.

Deployment of CCOTTA™ is:

- Transparent: Bridge, Router and Sniffer modes
- Flexible: multiple nodes, one administration point
- Efficient: up to 1 Gbps per line
- Scalable and Secure: load balancing, failover, bypass enabled.

