

# NETCLEAN WHITEBOX

- Regional Internet Blocking System for Child Sexual Abuse Imagery Web Sites

## Control Access to Illegal Sites Across Multiple Networks

NetClean's WhiteBox system is designed for national enforcement authorities and organizations who wish to block access to web sites containing child sexual abuse imagery (CSAI). The system can be used to block unwanted web access throughout networks or even groups of networks such as across multiple ISPs within a country or region.

## Quick and Easy to Implement

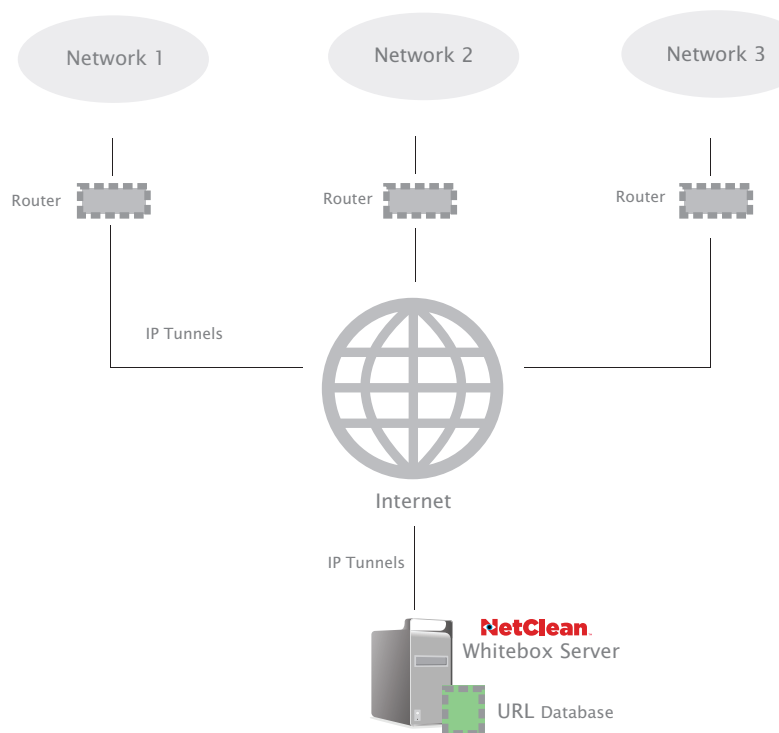
Once the main server is set up it is very easy to implement within the target networks. A few minutes' configuration of a network router is all that is required as it uses the Internet standard Border Gateway Protocol (BGP) to effect the filtering.

## How Does it Work?

Netclean's WhiteBox server contains the URL block list of the sites to be blocked. It looks up these URLs using DNS and resolves them to their IP addresses. These addresses are propagated to the networks to be filtered via BGP. Traffic to these IP addresses from the networks is routed through the tunnels to the WhiteBox server that checks the URL against the blocking list. If a match is made, a block page is sent to the requestor. If a match is not made, the request continues to the web site and it is accessed as normal.

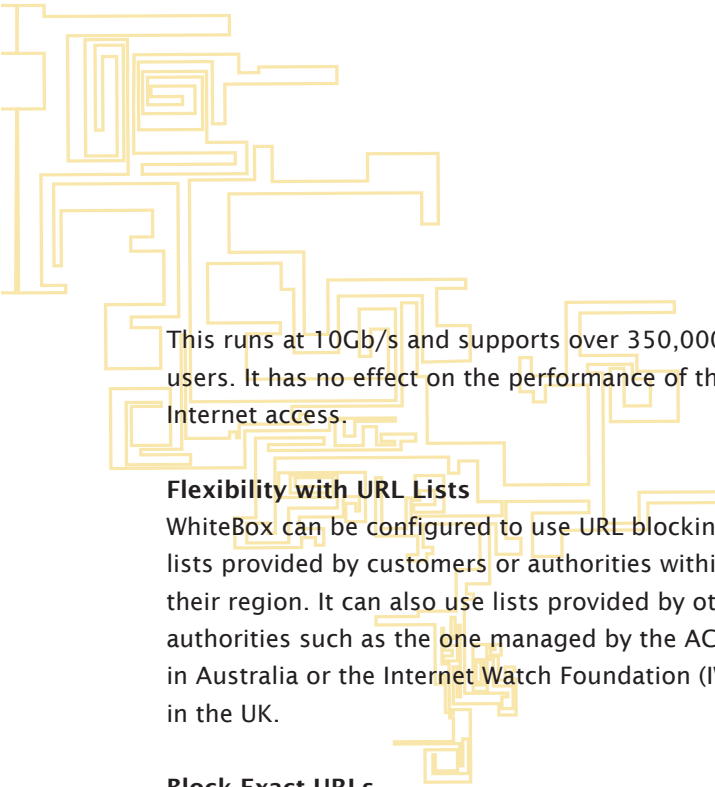
## No Effect on Performance

NetClean WhiteBox runs on one of the fastest high speed networks in the world, SUNET in Sweden.



**NetClean**

UNIQUE PROTECTION AGAINST CHILD PORNOGRAPHY



This runs at 10Gb/s and supports over 350,000 users. It has no effect on the performance of their Internet access.

#### **Flexibility with URL Lists**

WhiteBox can be configured to use URL blocking lists provided by customers or authorities within their region. It can also use lists provided by other authorities such as the one managed by the ACMA in Australia or the Internet Watch Foundation (IWF) in the UK.

#### **Block Exact URLs**

NetClean WhiteBox can block only the portion of the site that is required to be blocked if it can be accessed by a unique URL. For example, if only the web page [www.blockme.com/badstuff](http://www.blockme.com/badstuff) contained material to be blocked then that page would be blocked if it was added to the block list, but [www.blockme.com/goodstuff](http://www.blockme.com/goodstuff) would not be blocked and neither would [www.blockme.com](http://www.blockme.com). However, if [www.blockme.com](http://www.blockme.com) is added to the URL list then both [www.blockme.com/badstuff](http://www.blockme.com/badstuff) and [www.blockme.com/goodstuff](http://www.blockme.com/goodstuff) would be blocked.

#### **IP Address Checking**

The IP addresses of all URLs on the blocking list are

checked often to ensure the effectiveness of the filtering as many web sites containing CSAI are known to change IP addresses.

#### **Logging and Reporting**

All accesses through the filter are logged so that authorities and organisations can use this information if required. Logged data includes URL, time, and IP address of request.

#### **Fail-Safe**

NetClean's WhiteBox implementation is fail-safe. This means that failure of the filtering server will have no effect on the Internet traffic on the filtered network, however blocking will not work while the server is down. This ensures that the WhiteBox system can be installed on mission-critical networks with full confidence.

#### **Technical Details**

- Hardened Unix-type operating system.
- Management is via a browser interface to allow the unit to be set up easily.
- Some specialized configurations can be set up upon request by your NetClean distributor.
- Servers are available as rack mountable with multiple power supplies and RAID disk arrays for high reliability applications.
- Multiple server solutions for redundancy.

#### **No Proxying**

All non-blocked traffic is passed unaltered.