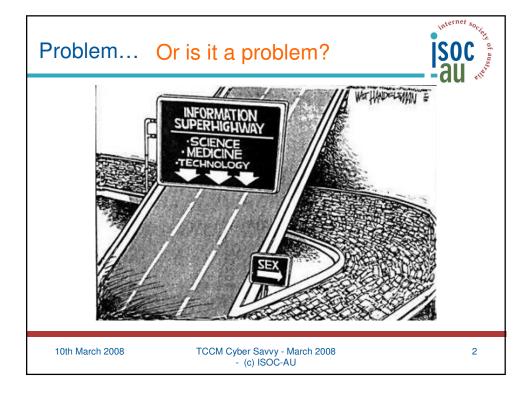
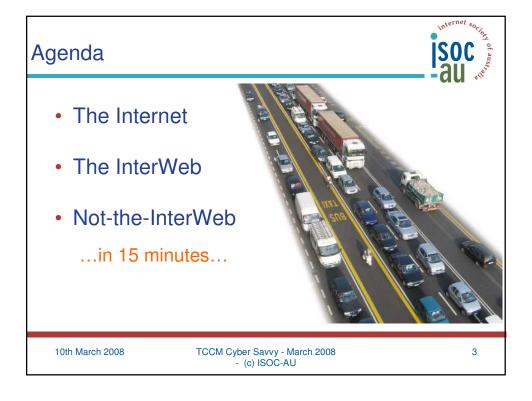


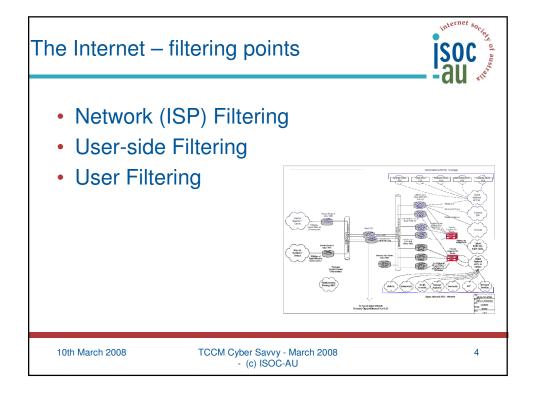
Internet Filtering

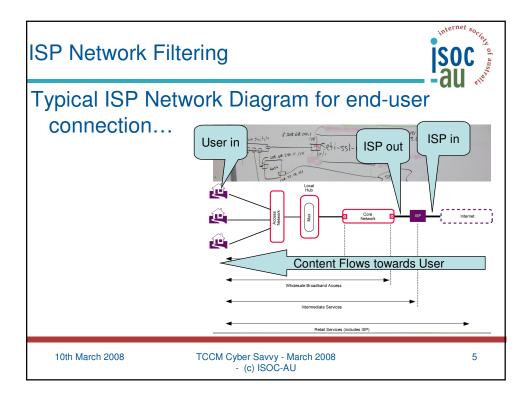
What it is - and isn't...

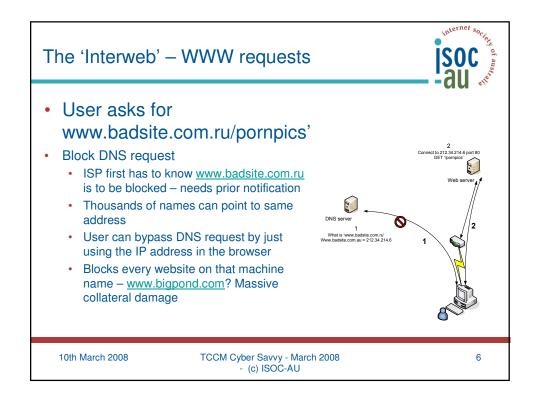
Paul Brooks
Director – ISOC-AU
pbrooks@layer10.com.au



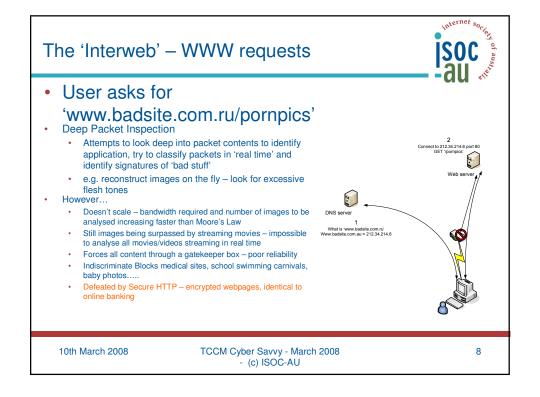


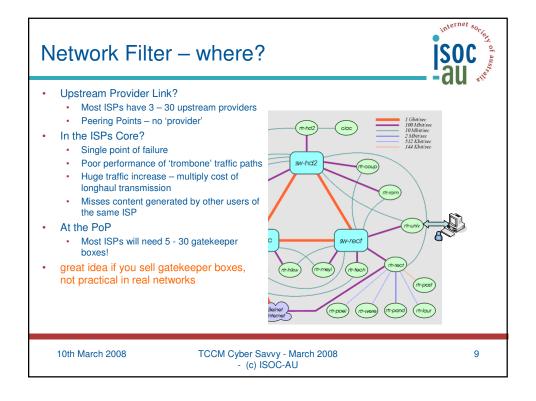






The 'Interweb' – WWW requests User asks for 'www.badsite.com.ru/pornpics' Block IP address ISP first has to know 212.34.214.6 is to be blocked – needs prior notification Thousands of sites can be hosted on the same IP address – massive collateral damage HTTP can use any port number, not just 'port 80' - under control of the site - so have to block all connectivity for all applications · Golden opportunity for Denial of Service deliberately host inappropriate content on www.bigpond.com/user/fakename 10th March 2008 TCCM Cyber Savvy - March 2008 - (c) ISOC-AU





Fundamental Issues



- ISP-level filters can't tell if you are accessing photos of your own kids, or someone else's
- ISP-level filters can't tell the age of the user requesting the photo – can only be used for verified illegal content, not for 'inappropriate' content
- Easily circumvented by encrypted webpages HTTPS, SSL encryption

10th March 2008

TCCM Cyber Savvy - March 2008 - (c) ISOC-AU

User-side Filtering



- Software filter on a user's PC
 - Can be customised per user Mum's level of filtering can be different from children
 - Mum must remember to log out, or the next person to the keyboard uses her permissions
 - Lists of inappropriate sites needs to be kept up to date
- Relatively easy to work around public proxies, 'admin' user can disable
 - Generally complicated for an unsophisticated user to install and keep up to date

10th March 2008

TCCM Cyber Savvy - March 2008 - (c) ISOC-AU -1

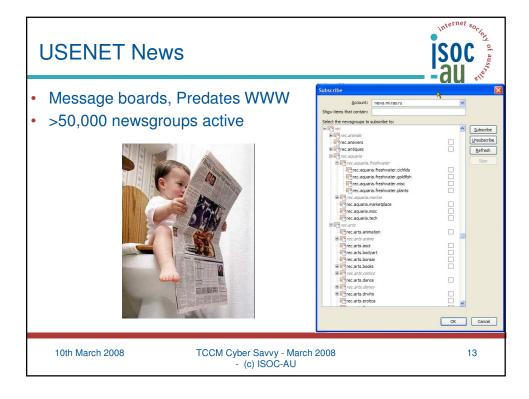
Not-the-InterWeb

- The Internet, and inappropriate content, is not just exchanged using HTTP (WWW)
 - Email
 - · USENET aka 'Network News'
 - Peer-to-peer e.g. bittorrent
 - RSS Podcasts
 - Instant Messenger MSN, Yahoo, etc
 - Skype
 -and many others



10th March 2008

TCCM Cyber Savvy - March 2008 - (c) ISOC-AU



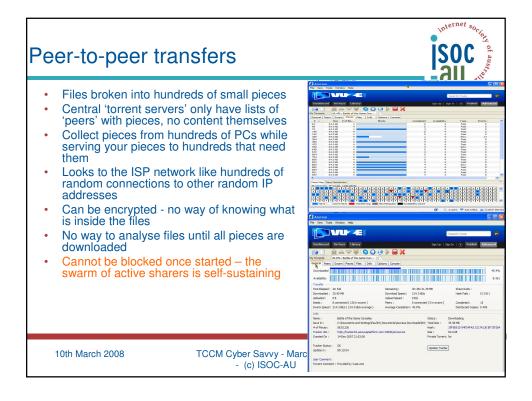
USENET news



- Messages are like Email text encoded attachments
- · Images split into dozens or hundreds of messages
- Messages can be distributed across multiple newsgroups
- Until all parts of a binary document (image, program, zip-file, movie) are received, the binary document cannot be reconstructed and analysed
- Even if it is inappropriate content, no way to block it until it has already been distributed

10th March 2008

TCCM Cyber Savvy - March 2008 - (c) ISOC-AU



What it isn't...



- ISP-level filtering is not very effective too easy to go too far, and doesn't solve the problem
- The problem to be solved hasn't yet been articulated clearly
 - Are we blocking illegal content, blocking 'undesirable' content, and who does the classification?
- No substitute for POS

Parent Over the Shoulder

10th March 2008

TCCM Cyber Savvy - March 2008 - (c) ISOC-AU



Paul Brooks
Director, ISOC-AU
pbrooks@layer10.com.au

www.isoc-au.org.au