

Open ICT Boundaries

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Malware

- 15 years to end 2007 – 358,000
 - 135,000 in 2007
 - End of 2008 – 1.5M (3,500 per day)
- (Figures from McAfee)

What are the dangers ?

- Keyloggers
 - Get your passwords
 - And your credit card and bank details
- Your PC becomes a robot
- Your PC becomes base for new attack

How does it happen ?

- Opening an e-mail attachment
- 'OK to install new video codec ?'
- Downloading and installing free software
- Accepting a file using an Instant Messenger
- Installation through coercion
- Simply visiting a website

Why do they do it ?

- Financial gain

What damage can they do?

- Slow PC/system
- Crash system

Span: 10 Min Hour Day **Week**

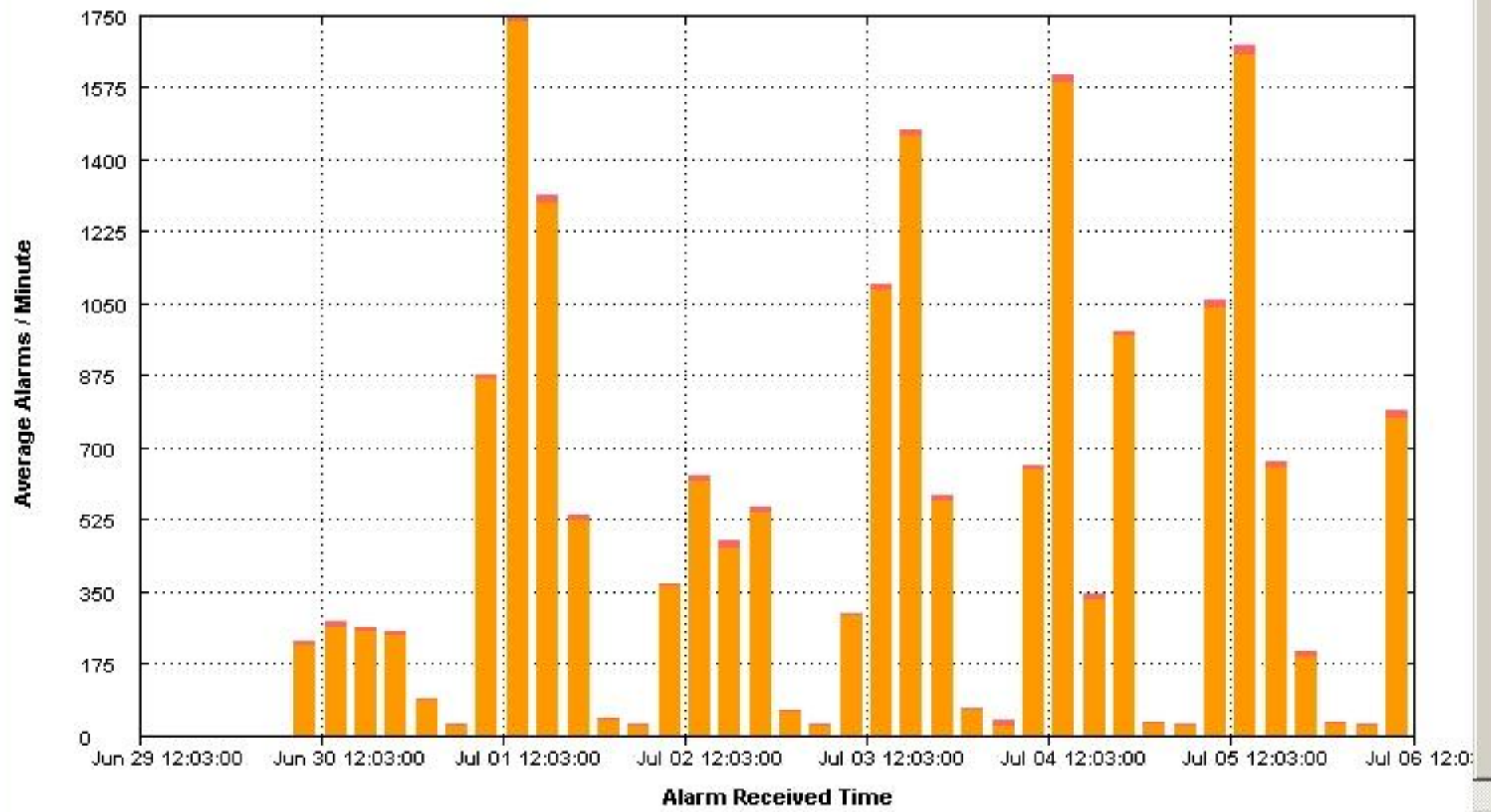
Start Time: Mon Jun 29 12:03:00 2009

Bar

Area

Average Alarms / Minute

High **Medium** **Low** **Informational**



Scenario:

You want groups of students studying at various universities across the world to collaborate on a group project with external business partners.

Can this be achieved without compromising IT infrastructure of all partners?

2008 Collaborated with 3 Companies and 2 Universities partners on 3 projects



THE WORLDWIDE DESIGN STUDIO



- Intel (USA)
- Motorola (Korea & UK)
- Great Southern Wood (USA)
- Hong-ik University (Korea)
- Auburn University (USA)

Northumbria Conference 2009 Tuesday 8th September 2009



2009 Collaborated with 2 Companies and 3 Universities partners 1 Common project theme



THE WORLDWIDE DESIGN STUDIO



- Inverness Medical (USA)
- Motorola (Korea)
- Hong-ik University (Korea)
- Ohio State University (USA)
- RMIT, University (Australia)



Wikis

- Initially didn't integrate with our authentication
- There would be a training overhead for contributors
- We would have to set it up and support it
- Little demand

So...

- We got it hosted externally
- As demand stabilised we brought it inside

Skype

- Skype got a bad reputation
- Seen as a threat by network security
- Its traffic is encrypted
- Its protocols were kept secret
- It commandeered PCs for its own purposes

So...

- We initially had a dedicated wireless network
- We now have it on our normal wireless network
- If there are no issues we would consider it on main network

FTP

- Huge security risk
- Do use a bit of Secure FTP (SFTP)
- Not sensible to open up your systems to allow other people to send you files

Instant Messenger

- We needed a corporate version
- Self installers use 'external authentication'
- Contacts needs to be self populated

So...

- We chose Office Communication Server
- Works well internally
- In the process of installing bridge servers to externals

JISCinfoNet Project:

Goal is to support collaboration using ICTs between the university and its external collaborative business & community partners

Objectives:

- ICT tools enable secure exchange of information
- ICT tools embedded into university IT infrastructure
- Groups (staff/students) able to collaborate

VoIP

(Voice over Internet
Protocol such as Skype)

Teleconferencing

Instant
messaging

email

Plone

Wikis

Videoconferencing

Blogs

FTP

Interactive
Whiteboard
Technology

JISCinfoNet Project:

Markers of success:

- Usability & accessibility of chosen tools
- Use of open source software
- Tools compatible with university IT infrastructure
- Collaboration within project teams