

The slide features a dark green background with a complex, glowing green circular graphic in the center, resembling a virus or a network diagram. The text is white and positioned on the left side of the slide.

# McAfee Anti Virus

## A Technical Overview

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<http://escarpment.net/>

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## Introduction

- The past
- A project overview
- What is available now
- Dealing with incidents
- The need to patch
- Problems
- Futures

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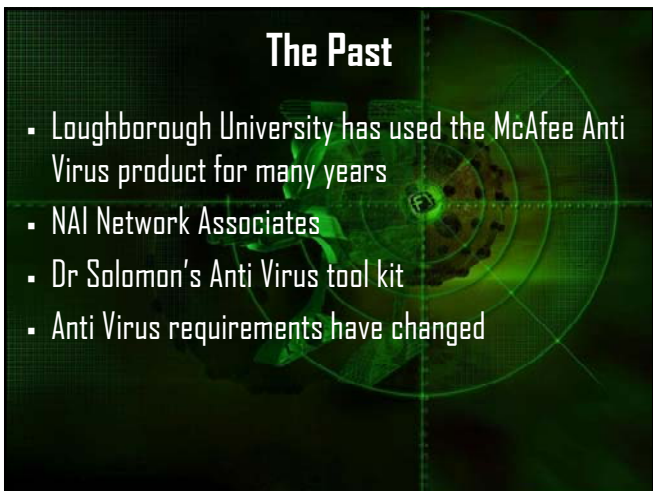
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## The Past

- Loughborough University has used the McAfee Anti Virus product for many years
- NAI Network Associates
- Dr Solomon's Anti Virus tool kit
- Anti Virus requirements have changed

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## A Project Overview

- A specific 'Virus Software Review' project
- Provision of Anti Virus Software
- Standardisation of version and builds
- Improving distribution
- Improving documentation
- Review of Virex for Macintosh

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## Moving on...

- McAfee Virus Scan 4.5.1, 7.0 and 8.0i
- Distribution via CDROM or managed services
- DAT updates from a shared Linux FTP server
- Limited reporting
- Good documentation
- DAT revisions on the web site

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## What is available now?

- McAfee Virus Scan Enterprise 8.0i
- Standard build for desktop and server OS
- Standard to be used by all managed services
- Package created from step-by-step instructions
- Single exe file
- Support for Microsoft Windows 2000 and XP
- NO support for 9x, ME or NT 4.0

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## Who is it available to?

- Everyone!
- Every machine owned by Loughborough University
- Every member of staff
- Every student
- Individual use at home covered for the duration of time as a member of staff or as a student.
- Considerable investment!

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## New Features

- Buffer Overflow protection
- Unwanted Programs
- Port Ranges
- Access Protection

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## Why make it available to all?

- Time has changed
- Attack vectors for Virus infection has moved
- 16% of all attempted Virus infection on the Staff Desktop service is via USB pen/removable media
- The stand-alone disc scanner is not enough
- Remote working (off campus access)

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## Documentation

- Technical step-by-step setup available to all
- Revised Anti Virus web pages
  - All information revised
  - 18 point FAQ
  - Anti Virus Download (via Intranet)
  - Advice and Guidance
  - Virus Information Database and hoaxes links

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## DAT File Notification

- McAfee moved from once a week updates
- Checking revisions on web site
- Remote users
- Mail list dat-update
- Notifications each day of DAT file update and version number of current DAT

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## DAT File Repository

- Moved to dedicated Linux server with fault tolerance/redundancy
- Mirror of McAfee FTP site starts at 4am
- Current DAT replaced at 6am
- Status of FTP daemon checked every 15mins
- All happens in parallel on both servers
- Managed Services now use ePO

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## Dealing with Incidents

- WMF exploit (zero day)
- 27th December 2005
- Technically all machines from Win 3.1 – XP affected
- Windows patch not available for several weeks
- Most staff away from campus
- Many staff follow Internet best practice

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## Dealing with Incidents...

- By the 28<sup>th</sup> news has started to spread
- No DAT file coverage until 01/01/2006
- eTrust-Vet 12.4.1.0 01.01.2006 Win32/Worfo
- McAfee 4664 01.01.2006 Exploit-WMF
- Symantec 8.0 01.01.2006 Backdoor.Trojan

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## Dealing with Incidents...

- By the 3<sup>rd</sup> January:
  - Message to IT-Information
  - Checked DAT files on all servers
  - Additional update at 9.30am on managed services
  - Seen 484 requests for exploit
  - Seen five attempted local infections out of 2231 machines managed in ePO
  - Upgraded the DAT files on 386 managed

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### Dealing with Incidents...

- By the 4<sup>th</sup> January:
  - Emails containing WMF exploit seen on campus
  - Helpdesk staff contacted all recipients
  - Very few (single figures) infections
- By the 5<sup>th</sup> January:
  - Microsoft patch released
  - Managed services started testing

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### Dealing with Incidents...

- By the 6<sup>th</sup> January:
  - Staff Desktop service completed testing and released internally to Computing Services
- By the 9<sup>th</sup> January:
  - Patch released to Staff Desktop service
- By the 10<sup>th</sup> January:
  - Patch released to PC Labs service

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### Dealing with Incidents...

- No major outbreak of infected machines
- Limited Anti Virus protection through heuristics at zero-day
- Full Anti Virus protection within five days
- Additional DAT updates forced
- Release of patch to all managed services in five days

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## The need to patch

- McAfee Virus Scan has a number of patch levels
- 'About VSE' "Patch Versions:
- Patch 10 current on campus
- Patch 11 has issues with DFS (hotfix)
- Patch 12 due imminently
- However VSE 8.5 is also due imminently

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## Problems

- McAfee Virus Scan product is very good
- Support is more of an issue
- Two main outstanding issues
  - Scanning of compressed or image files
  - ePO interaction
    - telnet 127.0.0.1 8081

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## Futures

- Protection Software Review Dec 06
- Including all Malware (Virus, Worm, Trojan, Adware and Spyware).
- Increasing risks on Macintosh platforms
- 42 known OS X Malware items (not counting Viruses)
- Apple's move to Intel based hardware

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