

Hacking and the Law

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Introduction



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- Hacking
- The Law
- Individual rights and responsibilities
- Employee rights and responsibilities
- Directors' duties
- Questions

About Pinsent Masons



- Pinsent Masons is a full service commercial law firm
- 240 partners, a total legal team of around 900 and more than 1,500 staff in the UK and internationally.
- Pinsent Masons ranks in the top 15 of UK law firms and in the top 100 of law firms globally.

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Hacking



- Hacker*: [originally, someone who makes furniture with an axe] n.
- 1. A person who enjoys exploring the details of programmable systems and how
 to stretch their capabilities, as opposed to most users, who prefer to learn only the
 minimum necessary.
- 2. One who programs enthusiastically (even obsessively) or who enjoys programming rather than just theorizing about programming.
- 3. A person capable of appreciating hack value.
- 4. A person who is good at programming quickly.
- 5. An expert at a particular program, or one who frequently does work using it or on it; as in `a UNIX hacker'. (Definitions 1 through 5 are correlated, and people who fit them congregate.)
- 6. An expert or enthusiast of any kind. One might be an astronomy hacker, for example.
- 7. One who enjoys the intellectual challenge of creatively overcoming or circumventing limitations.
- 8. [deprecated] A malicious meddler who tries to discover sensitive information by poking around. Hence `password hacker', `network hacker'. See cracker.
- *Hacker Dictionary

Common Terms



Cracker Spyware

Phreaking Malware

Phishing Adware

Spoofing Homeware

Bot nets

Compare: Warez d00dz get illegal copies of copyrighted software. If it has copy protection on it, they break the protection so the software can be copied.

The Law



- The Computer Misuse Act 1990
- Data Protection Act 1989
- The Telecommunications (Lawful Business Practice)(Interception of Communications) Regulations 2000
- The Regulation of Investigatory Powers Act 2000
- Human Rights Act 1998
- Council of Europe Cyber Crime Convention
- Common Law offences and the Civil Law

The Com

Not necessarily external control

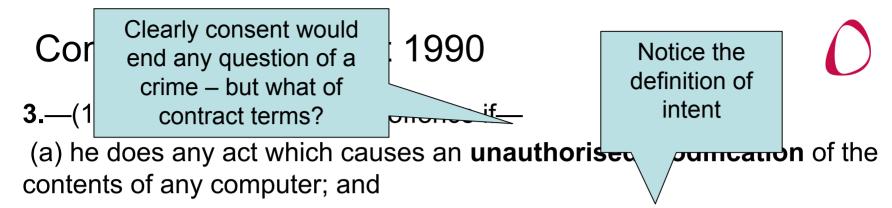
Act 1990



It is the access that is "unauthorised", not the method of access

an offence if

- to secure a cess to any program or data held in any computer;
- (b) the access he intends to secure is unauthorised; and
- (c) he knows at the time when he causes the computer to perform the function that hat is the case.
- 2.—(1) A person is an offence ... if he commits an offence under section Knowledge is an essential aspect of any conviction under the CMA pplies; or
- (b) to facilitate ce (whether by himself or by any other person);



- (b) at the time when he does the act he has the requisite intent and the requisite knowledge.
- (2) ... the requisite intent is an intent to ...—
- (a) to **impair** the operation of any computer;
- (b) to prevent or hinder access to an computer; or
- (c) to **impair** the operation of any such progra data.
- (3) The intent need not be directed at—
- (a) any particular computer;
- (b) any particular program or data or a program or data or any particular kind; or
- (c) any particular modification or a modification of any particular kind.

any clearly directed y of any such systems - but

Impair, prevent

or hinder -

toward the

disabling of

what of the use

of spare

capacity?

Data Protection Act 1989

The seventh principle

But when. and judged by whom?

Having regard to the state of technological development and the cost of implementing any measures the level of security appropriate to-

May seem vague, but it is a concept familiar to Health and Safety lawyers

(a) the harm that might result from social unlawful processing or accidental loss, destruction or are mentioned in the seventh principle, and dama

> Plainly an assessment on a case by case basis, but if harm arises, then a claim for damages could follow

to be protected.

The Telecommunications (Lawful Business

Practice) (Inte

You just can't! - Civil penalties (damages)

possible if you do

ications)



Billions of e-mails pass through business mail servers - these are the circumstances in which you can

Investigatory Powers Act

unlawful to intercept electronic communications

has been authorised.

replations set out circumstances in monitor mess can lawfully intercept emails and telephone calls made on their own systems.

- routine access to business communications,
- monitoring standards of services and training,
- combating crime and unauthorised use of systems.
- Central to the Lawful Business Practice Regulations and the draft code is the need for email and internet acces Without consent it is workplace - consent. unlawful - the so

called "legitimate" spyware software is unlawful





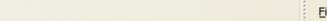














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Screenshot



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Privacy and Flectronic Communications

What does this mean? In the conditions of use – as a pop-up – in a front page banner?



Is this not a browser issue?

- Given clear and comprehensive information; about the purpose of the storage of, or access to, that information; and
- Given the opportunity to refuse the storage of access to that information.
- Where loss has been suffered there is a right to bring a civil claim
- Information Commissioner can us DPA

Difficult to envisage what loss could be caused – but the right is there

der the

Europe

In an interview with the Boston-based hacking collective, the Cult of the Dead Cow, the hacker, who calls himself Blondie Wong, said the new group is forming in the US, Canada, and in Europe to take up the cause of fighting human rights abuses in China.



- Human Rights Act 1998
- Applicable to public authorities
- ARTICLE 8

Everyone has the right to respect for his private and family life, his home and his correspondence.

There shall be no interference by a public authority with the exercise of this right except such as is in accordance with the law and is necessary in a democratic society in the interests of national security, public safety or the economic well-being of the country, for the prevention of disorder or crime, for the protection of health or morals, or for the protection of the rights and freedoms of others.

- Council of Europe Cyber Crime Convention
 - does not itself create substantive criminal law offences or detailed legal procedures. Parties agree to ensure that their domestic laws criminalise several categories of conduct

Common Law offences



- Theft
 - Theft of materials, but not information (in Scotland)
- Fraud
 - The intention to deceive covers most forms of online crime
- Malicious mischief
 - Where the Crown can think of nothing else
 - Eg denial of service attacks
- Civil wrongs negligence... (oops!)
- Other Laws:
 - If there is a possibility of several things going wrong, the one that will cause the most damage will be the one to go wrong
 - Any given program, when running, is obsolete.
 - Don't get caught

Case Studies



- The individual
 - He wants to test his bank's security measures to gain access to his own account
 - He browses the web
- The employee
 - With no policies in place he is challenged about a personal e-mail
 - He is then sacked
- The director
 - With a mission critical system in place, they suffer a factory shut down as the server, and back-up, fall over.
 - No anti-virus, system overloaded, spam being sent from unprotected server.

Individual Rights and Responsibilities



- Testing the Bank
- the access he intends to secure is unauthorised – Computer Misuse Act
- However if he impairs the operation of the Bank system
 - Criminal liability malicious mischief – deliberate damage
 - Civil liability negligence
- Possibly an enormous exposure

- Browsing the web
- Cookies received contrary to the Computer Misuse Act?
- the access he intends to secure is unauthorised
- to perform any function
- What terms does he actually read?
- What about read receipts?

Employee Rights and Responsibilities



- Personal e-mails
 - No entitlement to monitor
 - Require informed consent
- Monitoring creates a stressful environment
- Data protection requirements
- Evidential complications

- Sacked employee
- Can they access the office system?
- "I only wanted my…"
- No "to perform any function
 ...[and] the access he intends to
 secure is unauthorised"

Directors' Duties



- Fiduciary duties to the company
- What is reasonably obvious to the ordinary Director – with that Director's skills and experience
- Data Protection
- Health and Safety?
- Criminal liability?

- Negligence:
- Inadequate firewall
- Inadequate virus protection
- Damage to company reputation (spam)
- Liability under the DPA, fine, censure
- ISO 17799 treats IS as a management function

The hacker's liability



- Loss flowing naturally from the wrong
- The loss is foreseeable
- The loss is reasonable
- The loss is not too remote
- Replacement system costs
- Loss of profits
- Management time
- Vicarious liability of the employer of the casual hacker?

A bit of reality



- It is unclear what proportion of hi-tech crime is attributable to serious and organised criminals, as distinct from individual criminals or mere thrill-seekers.*
- SDEA Headquarters are located at the Osprey House Complex, Paisley, which also accommodates the National Criminal Intelligence Service (NCIS) Scottish Office and HM Customs and Excise (HMCE).
- There are between 6 and 9 police officers dealing with "hi-tech" crime...

Some more reality...



- The biggest targets for criminal activities are financial institutions
- Financial Institutions cannot be seen to have insufficient security
- They would rather invest in technological defences, than sue
- Most sensible hackers will operate from other jurisdictions,
- The government, and especially the military, will track you down!

Questions?

