

Cybercrime

Chapter 19.1

Cybercrime

- Criminal activity online
- Most cybercrime falls into one or more of 3 categories
 - Computers as targets (CIA)
 - Computers as storage devices (Store illegal data)
 - Computers as communication tools (Communication for illegal activity)
- It is very hard to stop it
 - Global
 - Easy to hide
 - Requires lots of resources

International Convention of Cyber Crime

- International treaty (organization)
- Cooperation between countries
- Improving investigation techniques
- Common terminology and precise definitions

- More specific list of crimes
- International consensus
- Know what to focus on

Table 19.1 Cybercrimes Cited in the Convention on Cybercrime

Article 2 Illegal access

The access to the whole or any part of a computer system without right.

Article 3 Illegal interception

The interception without right, made by technical means, of non public transmissions of computer data to, from, or within a computer system, including electromagnetic emissions from a computer system carrying such computer data.

Article 4 Data interference

The damaging, deletion, deterioration, alteration, or suppression of computer data without right.

Article 5 System interference

The serious hindering without right of the functioning of a computer system by inputting, transmitting, damaging, deleting, deteriorating, altering, or suppressing computer data.

Article 6 Misuse of devices

- a. The production, sale, procurement for use, import, distribution, or otherwise making available of:
 - i. A device, including a computer program, designed or adapted primarily for the purpose of committing any of the offences established in accordance with the above Articles 2 through 5;
 - ii. A computer password, access code, or similar data by which the whole or any part of a computer system is capable of being accessed, with intent that it be used for the purpose of committing any of the offences established in the above Articles 2 through 5; and
- b. The possession of an item referred to in paragraphs a.i or ii above, with intent that it be used for the purpose of committing any of the offences established in the above Articles 2 through 5. A Party may require by law that a number of such items be possessed before criminal liability attaches.

Article 7 Computer-related forgery

The input, alteration, deletion, or suppression of computer data, resulting in inauthentic data with the intent that it be considered or acted upon for legal purposes as if it were authentic, regardless whether or not the data is directly readable and intelligible.

Article 8 Computer-related fraud

The causing of a loss of property to another person by:

- a. Any input, alteration, deletion, or suppression of computer data;
- b. Any interference with the functioning of a computer system, with fraudulent or dishonest intent of procuring, without right, an economic benefit for oneself or for another person.

Article 9 Offences related to child pornography

- a. Producing child pornography for the purpose of its distribution through a computer system;
- b. Offering or making available child pornography through a computer system;
- c. Distributing or transmitting child pornography through a computer system;
- d. Procuring child pornography through a computer system for oneself or for another person; and
- e. Possessing child pornography in a computer system or on a computer-data storage medium.

Article 10 Infringements of copyright and related rights

Article 11 Attempt and aiding or abetting

Aiding or abetting the commission of any of the offences established in accordance with the above Articles 2 through 10 of the present Convention with intent that such offence be committed. An attempt to commit any of the offences established in accordance with Articles 3 through 5, 7, 8, and 9.1.a and c. of this Convention.

Table 19.2 CERT 2007 E-Crime Watch Survey Results

	Committed (net %)	Insider (%)	Outsider (%)	Source Unknown (%)
Virus, worms or other malicious code	74	18	46	26
Unauthorized access to/use of information, systems, or networks	55	25	30	10
Illegal generation of spam e-mail	53	6	38	17
Spyware (not including adware)	52	13	33	18
Denial-of-service attacks	49	9	32	14
Fraud (credit card fraud, etc.)	46	19	28	5
Phishing (someone posing as your company online in an attempt to gain personal data from your subscribers or employees)	46	5	35	12
Theft of other (proprietary) info including customer records, financial records, etc.	40	23	16	6
Theft of intellectual property	35	24	12	6
Intentional exposure of private or sensitive information	35	17	12	9
Identity theft of customer	33	13	19	6
Sabotage: deliberate disruption, deletion, or destruction of information, systems, or networks	30	14	14	6
Zombie machines on organization's network/bots/ use of network by BotNets	30	6	19	10
Web site defacement	24	4	14	7
Extortion	16	5	9	4
Other	17	6	8	7