

CLASS NOTES TO UNIT: SECURITY (Video lesson + Class + Portfolio assignments)

In this unit we are going to:

- Use the vocabulary related to cybersecurity (1).
- Read and complete exercises about mobile security solutions (2).
- Build question-answer sequences about mobile security alerts and procedures (3).
- Write a chronological sequence of events related to security issues (4).

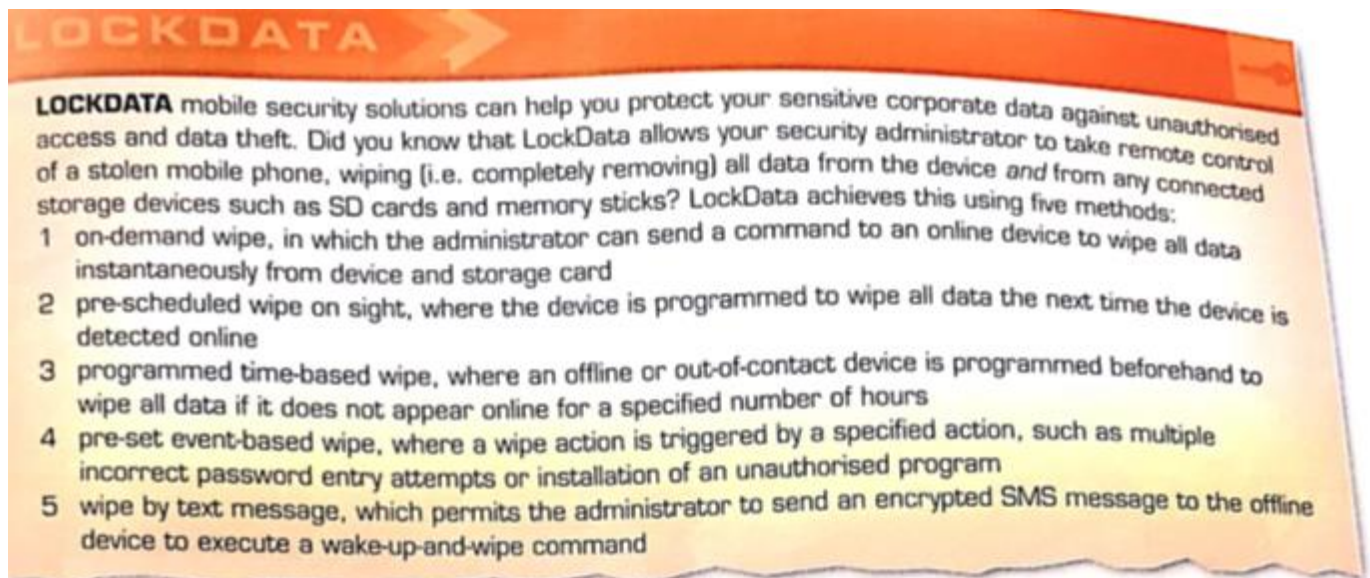
Parts 1-3 will be dealt with in the video lesson and in class, including exercise a. Part 4 must be done after the class and included in the students' portfolio

1.Introduction: Let's watch this short video about cybersecurity and check the uses and pronunciation of the following terms: *security handshake / rebroadcast / flaws / router / wi-fi connection / encrypted-encryption*

<https://www.bbc.com/news/technology-41635516>

Let's now try to describe the process again with our own words.

2. Reading: Let's read the following brochure and complete the exercises required **(Exercise a):**



LOCKDATA mobile security solutions can help you protect your sensitive corporate data against unauthorised access and data theft. Did you know that LockData allows your security administrator to take remote control of a stolen mobile phone, wiping (i.e. completely removing) all data from the device *and* from any connected storage devices such as SD cards and memory sticks? LockData achieves this using five methods:

- 1 on-demand wipe, in which the administrator can send a command to an online device to wipe all data instantaneously from device and storage card
- 2 pre-scheduled wipe on sight, where the device is programmed to wipe all data the next time the device is detected online
- 3 programmed time-based wipe, where an offline or out-of-contact device is programmed beforehand to wipe all data if it does not appear online for a specified number of hours
- 4 pre-set event-based wipe, where a wipe action is triggered by a specified action, such as multiple incorrect password entry attempts or installation of an unauthorised program
- 5 wipe by text message, which permits the administrator to send an encrypted SMS message to the offline device to execute a wake-up-and-wipe command

Which of the five methods ...

- 1 must be programmed in the mobile device in advance, before the device has been stolen?
- 2 can be executed during the incident itself, for example while the thief is using the phone to access data?
- 3 can be executed only while the device is connected to the internet?
- 4 operate if the thief carries out an operation specified in advance, such as trying to log in more than three times using the wrong security information?
- 5 can be executed even when the device is disconnected from the internet?

- 6 Find the seven hyphenated word combinations in the brochure. Then match them with these phrases with the same or similar meaning. Each hyphenated combination acts as an adjective.

Example: *I out-of-contact*

- 1 which cannot be contacted
- 2 dependent on a specified action being carried out
- 3 dependent on the passage of a fixed time
- 4 executed when it is requested
- 5 which makes the device switch on and remove all data
- 6 fixed or planned beforehand
- 7 planned beforehand to happen at a specific moment

- 7 Find words in the brochure with the same or similar meaning as the following.

- | | |
|-----------------------------|--------------------------|
| 1 needing to be kept secure | 4 from a distance |
| 2 illegal or not allowed | 5 immediately |
| 3 entry | 6 written in secret code |

3. Speaking: From these notes written by the Security Administrator of a company, let's build a question-answer sequence (we will do it in class as a chain-dialogue)

Incidents 2 Security
Breaking exercise 4 page 60
Incident A
Sequence of events

Time	Alert message on security screen	My response
07.45	"6 incorrect password attempts have been made" (on Sales Manager's mobile device)	Tried to contact Sales Manager – no reply
08.10	"User attempting to install unauthorised software"	Disabled Sales Manager's account remotely
08.16	"Device running unauthorised software"; "Device now online"; "Device attempting to access company server"	Blocked all files on company server – no files accessed or downloaded
08.18	Message from helpline staff: "Sales Manager has reported lost mobile device"	
08.20	"GPS shows device location"	Forwarded data to Director, Security, to give to police
08.22		Attempted to take over remote control of device – unsuccessful
08.23	"Mobile device is offline"	Attempted to wipe data remotely from device and SD card – unsuccessful
08.28	"Mobile device is offline"	Sent encrypted SMS message to device, instructing it to go online and wipe all data from device and SD card.
08.33	"Mobile device is online"	
08.34	"Wake up and wipe operation has completed successfully"	All data permanently removed from device and SD card

Planning 3 Projects
Book exercise 5 page 47
Appendix B: Problems with current modes of travel

The sequence starts from the following situation: *At 08:12 the Sales Manager of Avantis can't find his company-issued mobile phone (which has an SD card containing sensitive company data). He immediately phones his office to report the loss. Meanwhile, over at Avantis, the Security Administrator sees a security alert on her computer screen, indicating that someone is making repeated multiple incorrect password attempts to connect to the internet from the mobile phone.*

Sample question-answer sequence (there can be more than 1 possibility):

-At 7:45 I got an alert on my security screen.

-Did you try to contact the Sales Manager?

-I did, but there was no reply. Then, at 8:10, I detected that the user was attempting to install unauthorised software.

-What did you do then? // How did you react? // Did you try to disable...

3. Assignment for your portfolio: Think of a security issue concerning another type of company and/or situation. Write a 2-3 sentence introduction to the issue and then a note sequence like the one in exercise 2. Add sequence markers to your report, such as *First, secondly, then, after that, finally...* Approx. length: 150 words.