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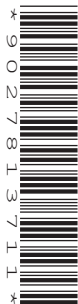
January 2022

Level 1/2 Cambridge National in ICT

R001/01 Understanding Computer Systems

Pre-Release Case Study

To be opened on receipt



INSTRUCTIONS

- Read this pre-release material before the exam.
- Do **not** take this copy of the pre-release material into the exam.
- Do **not** take any notes into the exam.

INFORMATION

- A clean copy of this pre-release will be given to you with the question paper.
- This document has **4** pages.

Information for learners

The News Industry has changed as the World Wide Web has expanded. Some people now pay for specialist news items. One area of specialist news is focused on celebrities and TV personalities.

Documents that are key to the way that an organisation works are called operational documents. These documents hold sensitive information and need to be protected from unauthorised access and accidental loss.

Scenario 1

'Sundown News' is a subscription-only TV news broadcaster focusing on stories about celebrities and TV personalities. Sundown News creates video and audio content that it sends to its subscribers by email. The same content can also be downloaded from the Sundown News website.

Sundown News employs ten reporters who send video footage to Sundown News of the events they are covering with an audio report of what they want to say. These are then edited by the office staff at Sundown News to create the daily output.

Each reporter is given a laptop and a smartphone by Sundown News to do their work. This gives the reporter a choice of how they send their footage and audio report back to the office for editing. Some reporters use free Wi-Fi services in places like internet cafés. Other reporters use the internet connection on their phones to create a hotspot for their laptop. There are a few reporters who wait until they get home and use their home connection to send in their content.

Sundown News uses tracking software on the smartphones and laptops so that each reporter's location can be tracked if an unplanned event occurs.

Scenario 2

The owners of Sundown News, Amaya and Tom, use the Cloud to store key operational documents. One of these operational documents is a schedule of known upcoming events happening over the next few weeks and which reporter they have assigned to cover that event. However, some events develop each day and reporters can be moved to cover these developing stories. These changes are added to the event schedule by Amaya and Tom. Both Amaya and Tom have editing rights over this operational document.

This event schedule is also shared with the reporters. The reporters do not have editing rights over the schedule.

Amaya wants to create an archive of the operational documents that is stored on the Cloud. She also wants to create a backup but is unsure of how often to do this.

The Sundown News website states that any video files submitted must be in an open file format. The site also includes a request that video files are optimised by being compressed wherever possible.

Tom receives videos from members of the public about celebrities that they have seen. These are sent to Tom by email attachment or on a storage device. Tom has been using his private email address but has now decided that he needs an official Sundown News email address for this purpose.

Preparation

In order to prepare for the examination, you should research the use of technology in a news organisation that produces video and sound content for online distribution.

This should include:

- the benefits and drawbacks of providing news reporters with smartphones and other devices to work remotely
- the ethical and moral considerations and benefits of using tracking software on smartphones and laptops to track the location of employees
- legislation dealing with unauthorised access to computers, the data and other materials held on them
- the use of encryption and other methods to protect the content of files and other online materials.

You should also research:

- the benefits of using online storage and storage devices, as well as the reasons why each may be used in different situations
- the benefits and drawbacks of allowing multiple users to edit online documents
- the reasons why an organisation may choose to create archives and backups of documents, and when these should occur
- the differences between open and proprietary file formats
- how files can be optimised for transfer and use
- the use of formal emails to reply to business enquiries
- suitable structures for formal email addresses.

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