



Protecting Undersea Fiber Cables

Description

Chris Baraniuk is a technology reporter. Undersea cables are very important for the internet. They help connect countries and carry lots of data.

Recently, divers found damaged cables in the Baltic Sea. NATO is now patrolling this area with planes and ships to keep the cables safe. The European Union is also taking steps to protect these cables.

Some companies are using special technology to detect danger near the cables. This technology can hear sounds in the water. It can tell if a boat or underwater drone is near the cable.

AP Sensing is one company testing this technology. They use sensors on boats and divers to find out how well their system works. They can see if a boat is above the cable or if someone is trying to tamper with it.

However, this technology has limitations. It does not work well from far away. Experts say cables can still break if boats drag their anchors over them. Even when cables get damaged, the internet usually keeps working because of backups. This is a good thing for everyone.

Vocabulary List:

1. **Undersea** /ˌʌn.dəˈsiː/ (adjective): Located occurring or done beneath the surface of the sea.
2. **Patrolling** /pəˈtrɒʊ.lɪŋ/ (verb): To traverse an area to ensure security or watch for any unusual activity.
3. **Detect** /dɪˈtɛkt/ (verb): To discover or identify the presence or existence of something.
4. **Tamper** /ˈtæmpər/ (verb): To interfere with something in a harmful way.
5. **Limitations** /ˌlɪmɪˈteɪʃənz/ (noun): Restrictions or bounds that reduce effectiveness or capabilities.
6. **Backups** /ˈbæk.ʌps/ (noun): Extra copies of data that can be used to restore the original in case of loss or corruption.

Comprehension Questions

Multiple Choice

1. Who is mentioned as a technology reporter in the text?

Option: Chris Baraniuk



- Option: AP Sensing
- Option: NATO
- Option: European Union

2. Which region had damaged undersea cables according to the text?

- Option: Baltic Sea
- Option: Mediterranean Sea
- Option: Pacific Ocean
- Option: Indian Ocean

3. What is the main purpose of undersea cables mentioned in the text?

- Option: Connecting countries
- Option: Transporting goods
- Option: Agriculture
- Option: Defense operations

4. Which organization is mentioned to be patrolling the Baltic Sea to protect undersea cables?

- Option: NATO
- Option: AP Sensing
- Option: European Union
- Option: UNESCO

5. Which company is mentioned in the text to be testing technology to protect undersea cables?

- Option: AP Sensing
- Option: Microsoft
- Option: Apple
- Option: Google

6. What is the stated limitation of the technology used to protect undersea cables?

- Option: Does not work well from far away
- Option: High cost
- Option: Limited energy supply
- Option: Noisy operation

True-False

7. Undersea cables are not important for the internet according to the text.



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8. The European Union is not involved in protecting undersea cables according to the text.
 9. AP Sensing is a company mentioned in the text to be testing technology to protect undersea cables.
 10. Damage to undersea cables can cause the internet to stop working completely.
 11. Experts mentioned in the text suggest that anchors from boats can break undersea cables.
 12. Backups are not mentioned in the text as a way to keep the internet working when undersea cables are damaged.

Gap-Fill

13. Some companies are using special technology to detect danger near the cables by hearing sounds in the water, such as _____ or underwater drones.
14. AP Sensing uses sensors on boats and divers to find out how well their system works to protect the cables; they can determine if someone is trying to _____ with it.
15. According to experts mentioned in the text, undersea cables can still break if boats drag their _____ over them.
16. The internet usually remains functional even if undersea cables are damaged due to the presence of _____.
17. Some limitations of the technology used to protect undersea cables include not working effectively from _____.
18. NATO is patrolling the area with planes and ships to keep the undersea cables safe in the _____.

Answer

Multiple Choice: 1. Chris Baraniuk 2. Baltic Sea 3. Connecting countries 4. NATO 5. AP Sensing 6. Does not work well from far away



True-False: 7. False 8. False 9. True 10. False 11. True 12. False

Gap-Fill: 13. a boat 14. tamper 15. anchors 16. backups 17. far away 18. Baltic Sea

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What type of malicious software is designed to harm or damage a computer or network?
Option: Trojan
Option: Adware
Option: Spyware
Option: Malware
2. What term refers to the practice of protecting systems networks and programs from digital attacks?
Option: Hacking
Option: Cyberterrorism
Option: Cybersecurity
Option: Phishing
3. Which device is commonly used for capturing images and recording videos?
Option: Keyboard
Option: Printer
Option: Speaker
Option: Camera
4. What term describes the force exerted on a surface per unit area?
Option: Temperature
Option: Pressure
Option: Volume
Option: Mass
5. What type of device has a screen that can be folded or bent?
Option: PC
Option: Smartphone
Option: Tablet
Option: Foldable
6. What type of service gives you access to content or features for a recurring fee?
Option: Free
Option: One-time purchase



Option: Subscription

Option: Premium

7. Who acts on behalf of others or represents a group or organization?

Option: Client

Option: Manager

Option: Representative

Option: Supervisor

8. What process involves following the movements or activities of users online?

Option: Tracking

Option: Browsing

Option: Encrypting

Option: Sharing

9. Which trait is characterized by persistence and determination in achieving goals?

Option: Resilience

Option: Perseverance

Option: Flexibility

Option: Adaptability

10. What activity involves raising awareness and generating interest in a product or service?

Option: Supporting

Option: Producing

Option: Promoting

Option: Developing

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The document was _____ for viruses before being downloaded.

12. The company needs to analyze its _____ to improve financial efficiency.

13. Customers can place _____ for the new smartphone before its official release.

14. It is important not to _____ with evidence at a crime scene.

15. Every scientific theory has its own set of _____ that need to be considered.

16. The team discovered a new species of fish living in the _____ caves.



17. The company's reputation was at _____ after the scandal.
18. The spokesperson will _____ the company at the international conference.
19. It is important to create regular data _____ to prevent data loss.
20. The security system has multiple _____ of protection to deter hackers.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The magician performed a clever illusion that amazed the audience.
22. The commercial showcased the new product features in a creative way.
23. The premium version of the app offers an experience without advertisements.
24. The police officers were actively monitoring the neighborhood for any suspicious activity.
25. The security system can quickly identify intrusions and unauthorized access.
26. Studying the past events and developments is essential to understanding the present.
27. The knights wore heavy protective gear to shield themselves in battles.
28. The diplomat was appointed as an official representative to a foreign country.
29. The researchers were investigating new methods to solve the scientific mystery.
30. His determination and persistence led him to overcome numerous obstacles.

Answer

Multiple Choice: 1. Malware 2. Cybersecurity 3. Camera 4. Pressure 5. Foldable 6. Subscription
7. Representative 8. Tracking 9. Perseverance 10. Promoting

Gap-Fill: 11. scanned 12. costs 13. pre-orders 14. tamper 15. limitations 16. undersea 17. harm 18.
represent 19. backups 20. layers

Matching sentence: 1. Trick 2. Ad 3. Ad-free 4. Patrolling 5. Detect 6. History 7. Armor 8. Ambassador
9. Exploring 10. Perseverance

CATEGORY

1. Sci/Tech - LEVEL1



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