

China Unicom fiber optic cable fell down



Overview

A provincial company of a certain operator temporarily stopped. Recently, a centralized procurement project of a provincial China Unicom company was anno.

Key Takeaways

A physical cut in China Unicom's core optical cables caused partial 4G and 5G base station outages, affecting network management and some voice services, but data forwarding remained largely unaffected.

Incident Overview

The disruption occurred when two main core optical cables were physically cut, triggering a dual-link failure in the local transmission network. This was due to single-path sharing of a single physical node, where two OTN loops lacked physical separation, making the network vulnerable to a single cable cut. The incident led to equipment disconnections and partial outages at multiple base stations.

Impact on Services 4G and 5G base stations reported link-down alarms, causing temporary loss of management connectivity. Subscriber services experienced abnormal voice calls, and both registration success rates and call completion rates declined. Data forwarding services were not affected, meaning internet traffic continued to flow despite the management disruptions.

The incident coincided with a surge in IoT device updates, which contributed to network congestion and amplified the impact.



Network Response and Restoration

China Unicom conducted a VPN service cutover on a core network device, reconfiguring VPNs on new LoopBack interfaces. During this process, some static routes were invalidated, temporarily affecting base station monitoring. After reconfiguration, all services were fully restored.

Broader Context

China Unicom is actively involved in international submarine cable projects, such as the Asia Link Cable (ALC) and SEA-H2X, which enhance connectivity between China, Southeast Asia, and other regions. These cables feature intelligent optical network scheduling and dual-landing architectures to ensure high reliability and rapid automatic link switching. While the recent incident was local and terrestrial, it highlights the importance of physical cable protection and network redundancy in maintaining uninterrupted service.

Key Takeaways

Physical cable cuts can cause dual-link failures if network loops share a single physical path. Even with partial outages, data services can remain operational if proper routing and redundancy exist. Proactive network design, including diverse routing and intelligent optical scheduling, is critical to minimize service disruptions in both terrestrial and submarine networks.

Article Content

A provincial company of a certain operator temporarily stopped ...

Recently, a centralized procurement project of a provincial China Unicom company was announced to be terminated. However, the project was only launched half a month ago.

[1818 Golden Eye] Fiber optic cable tripped and flew off, no ...

Ms. Zhao reported that on the evening of April 6th last year, around 6 PM, she was riding her electric bicycle when a fiber optic cable suddenly fell, tripping her and causing her to...

China Telecom experienced a large-scale network outage, the ...

China Mobile and China Unicom have already restored services, and China Telecom has mostly recovered (currently routing through China Unicom). As of now, China Telecom has not

IODA | Internet Outages for China

This graph shows additional details related to IODA's Active Probing measurements, including Round-Trip Time (RTT) Latency and the percentage of IODA's probe packets that did not get a response.

Fiber to the Room (FTTR) Progress Update: Chinese Operators

China Telecom was caught flat-footed by its rival, China Unicom, and is now aggressively trying to catch up before Unicom siphons away additional customers with offers of free FTTR

Countering China's Subsea Cable Sabotage | Global Taiwan Institute

China's illegal, coercive, aggressive, and deceptive (ICAD) activities pose a mounting threat to global democracies, with subsea cable sabotage emerging as a particularly alarming tactic.

Inside China's fiber future

China's aggressive push toward a fully fiberized nation is entering a new phase—one defined not by basic coverage, but by adoption, quality, and the integration of AI-driven operations.

Down detector | Is China Unicom (APAC) down? Current China

Are you also wondering if China Unicom (APAC) is down or currently up? Real-time outages and problems for China Unicom (APAC). Is China Unicom (APAC) down or not working properly? Here

Insights from the Taiwan cable cut

Last month, a Chinese-owned vessel was accused of cutting an undersea fiber-optic cable near Keelung Harbor, highlighting the vulnerability of critical communications infrastructure.

HENG TONG GROUP CO.,LTD.

To verify stable operation, two test services were configured and monitored, confirming the fiber's compatibility and reliability under real-world commercial conditions.

How to choose a unicom gigabit optical modem? zte f477v2 is ...

Tired of your old modem driving you crazy, dropping your wi-fi connection at 3 am? fed up with 4k live streams freezing up like a powerpoint presentation, video conferences suddenly

China plans \$500 million subsea internet cable to rival US ...

SINGAPORE – Chinese state-owned telecom firms are developing a \$500 million undersea fiber-optic internet cable network that would link Asia, the Middle East and Europe to rival a

China plans \$500 million subsea internet cable to rival US-backed ...

Reuters reports that China state-owned telecom firms are developing a \$500 million undersea fiber-optic internet cable network that would link Asia, the Middle East and Europe to rival a

What China's Major Submarine Cable Means for U.S. Network Architects

Reuters says China's state-owned telecom firms are building a \$500 million fiber-optic internet cable network on the sea floor. China Telecommunications Corporation (China Telecom),

Exclusive-China plans \$500 million subsea internet cable to rival U.S ...

Exclusive-China plans \$500 million subsea internet cable to rival U.S.-backed project SINGAPORE (Reuters) - Chinese state-owned telecom firms are developing a \$500 million undersea

Air | Contact

Get in touch with Air (formerly Govini). Contact our team to request a demo, discuss media inquiries, or learn more about our Enterprise Readiness platform.

YOFC assists China Unicom to complete the first gl

Recently, the first new global carrier “Large Effective Area Fiber” (LEAF) (ITU-T standard code G.654.E) fibre cable land application engineering project whose application test was

THE FIBER-OPTIC CABLE OF CHINA UNICOM LINKS DANDONG IN CHINA

Download scientific diagram | THE FIBER-OPTIC CABLE OF CHINA UNICOM LINKS DANDONG IN CHINA TO NORTH KOREA (CHINA UNICOM 2016) from publication: The All-Purpose Sword: North

Contact Us

Continue your research online:

Website: <https://artduferoger.fr>

Technical inquiry: <https://artduferoger.fr/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

