DIFI

DATA SECURITY

Reducing Encryption Costs and Complexity

The DIFI Standard is creating true interoperability among vendor equipment for digital IF ground segment. It enables satellite communications to adapt to new challenges by securely converting RF traffic into IP transport, saving money, labor and management time.

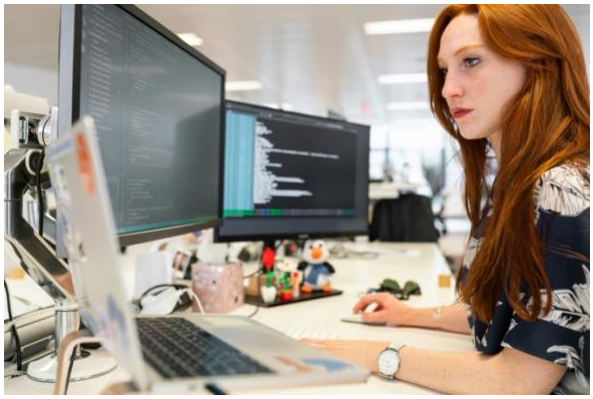
Decentralized Security Boosts Costs and Complexity

To meet the security needs of its satellite network, a major operator collocated modems and encryption devices at three gateway locations in different countries. The duplicate installations were costly and complex to maintain, but the hardware-based solution offered no other option.

The Digital Solution

Interoperable digital IF offered the option the operator needed. The company engaged with vendors to deploy digitizers at the three gateways and relocated its modems and encryption devices to a central facility. Secure IP transport connected the digitizers on each gateway antenna to the relocated equipment at the central facility.

Centralizing encryption delivered lower costs, improved security and reduced maintenance work-load. As an added benefit, it also let the company migrate from hardware to software modems running on generic compute. Shifting critical processes from hardware into software equipped the facility to adapt faster and more easily to continued change.



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