SpiderOak Mission Systems

Use Case: Secure Telework

SpiderOak Mission Systems' CrossClave is the highly secure tool that unlocks the world of telework to organizations dealing with sensitive information such as Controlled Unclassified Information (CUI), HIPAA, or other data that can't be put at risk.

Telework or remote work, once a curiosity in the business world, has rightly become a leading business model in the 21st century. Companies reap advantages such as reduced overhead and reduced unplanned time off. But their most significant gain is flexibility in business continuity planning. Remote employees can continue critical functions even when the lights are off in the home office. Remote workers enable business to run smoothly through extreme weather, transit strikes, or public health concerns, thus ensuring operations in the most trying of times.

But remote connectivity has remained tantalizingly out of reach for organizations that interact with highly sensitive data on a daily basis. Without telework options, the employees of these organizations are forced to brave hazardous conditions to keep the organization informed and working smoothly.

SpiderOak's CrossClave is ready to bring telework to companies that have previously been unable to benefit from telework due to security concerns. CrossClave provides the security necessary for telework by completely changing the security paradigm from trusting the network to a zero trust system.

Telework and Security

Traditional security has been focused on the security of the infrastructure, not data. In a traditionally secured network, plaintext information is transmitted over the network assuming that the whole infrastructure is "good enough." The system resembles a castle with high walls around the perimeter but no security on the inside. Just like a castle, it is also very hard to extend the walls around the hundreds to thousands of individuals in their own homes outside the castle walls. (Figure 1)

Fig. 1: Traditional IT Security

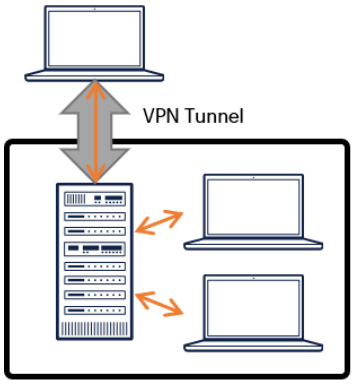
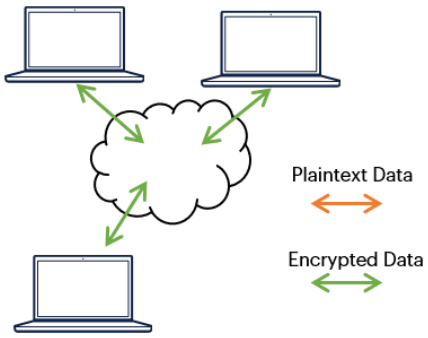


Fig 2: Remote telework with zero trust applications.



CrossClave does not rely on trusting the infrastructure, and in fact de-trusts the network, servers, and administrators. Instead of trying to awkwardly extend the castle, it protects each individual user and their data no matter where they are (Figure 2). It does this with key management for identity, blockchain for irrefutable authority and key management, a powerful policy engine for managing role- and attribute-based access controls, and encryption for data.

Deploying CrossClave in an Organization

Traditional secure remote work solutions have many complicated moving parts, requiring expertise in each of those parts. Breakdowns in any one part of the system can also bring the whole enterprise to a grinding halt. Zero-trust solutions, such as CrossClave, need only a device with client software installed and access to the Internet. An entire team can transition to CrossClave in moments. Users download CrossClave from the SpiderOak website or mobile app stores, install it and create an identity. From there they can create their own spaces for sharing files and chatting with colleagues, or join spaces created by others.

The organizational security policy is also strictly enforced while at the same time kept unobtrusively in the background while users work. The CrossClave policy engine validates each and every transaction posted to the distributed ledger. This policy engine is powerful, flexible, and programmable, and provides technological enforcement to nearly all requirements and regulations governing data security throughout the organization.

Operate Securely, Anywhere

SpiderOak has been providing cryptographically secure cloud solutions since 2006. Since 2019 we've been building partnerships that allow us to create the most strategic secure communication solutions that modern technology can provide. We know that no one knows your mission set like you do, so please reach out to us and let us know how we can build the solution that addresses your particular challenges.

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