Battle Card

Hospital Use Case – ZoneZero® and SFA

Vertical

safe-t

High Level Use Case

The Hospital use case discusses the deployment of Safe-T's suite of products ZoneZero and Secure File Access (SFA) to provide the hospital to secure all remote access and file access scenarios

Target Market/Customers

- Hospitals
- HMO
- Clinics

The Challenge

The current situation of the hospital, what that it divided its users into three groups: administration, doctors, and researchers.

The only ones that could connect remotely were doctors, and only using a VPN. The researchers and administration staff did not have the option to log in and access the organization's resources. All three of these groups usually use their own devices (BYOD).

The hospital wanted to refresh its remote and internal access policies and technologies. This new requirement brought up the following challenges relating to application and file access:

1. Control and secure remote access to hospital resources for external users
   - Support different types of users - employees and contractors
   - Access must only be provided after trust is established
   - Users are maintained off the network when accessing the data
   - Support for both VPN and non-VPN users
   - Support WFH (work from home) and BYOD users
   - The use of legacy applications
2. Control and secure access to hospital resources for internal users
   - Access must only be provided after trust is established
   - Users are maintained off the network when accessing the data
   - The use of legacy applications
   - Add MFA to application which do not support MFA
3. Control access between different network segments
   - Segment the IT and OT networks
   - Segment the medical device's networks from other networks
   - Prevent lateral movement between networks
4. Prevent malware propagation on file shares
   - Prevent malware from encrypting file shares
   - Reduce the risk of ransomware attacks
5. Comply to regulations such as HIPAA

The Need

There was a need then to deploy a solution which will address the following requirements:

- Find a solution that would not require any installation on the endpoint devices
- Allow hospital employees (administration, doctors, and researchers), and business partners to access corporate resources
- Segment between network segments
- The solution had to support the following corporate systems – medical systems, EMR applications, RDP servers, file shares, desktops, legacy systems, and SSH machines
- Solution had to be easy for users to learn and use
- Maintain highest levels of security
- Ensure a low attack surface for the hospital
- Solution had to be scalable, flexible, and agentless
- The solution had to comply with HIPAA requirements

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The Safe-T ZoneZero® Solution

Safe-T offered the hospital its flagship product called ZoneZero a solution. Safe-T's ZoneZero changes the way organizations grant secure external access to their services. ZoneZero acts as a Perimeter Access Orchestration platform that provides central management of all secure access technologies and helps organizations achieve Zero Trust Network Access (ZTNA).

Safe-T ZoneZero is the first ever Perimeter Access Orchestration solution, incorporating the following modules:

- **ZoneZero SDP** – a client-less ZTNA solution for non-VPN users
- **ZoneZero VPN** – a ZTNA solution for VPN users, achieved by integrating with all VPN solutions
- **ZoneZero MFA** – a ZTNA solution for internal users, achieved by providing built-in and integration with third-party MFA and Identity Providers (IdP)
- **ZoneZero SFA** – a SMB proxy for windows file shares, converting SMB to HTTPS and adding MFA for file share access

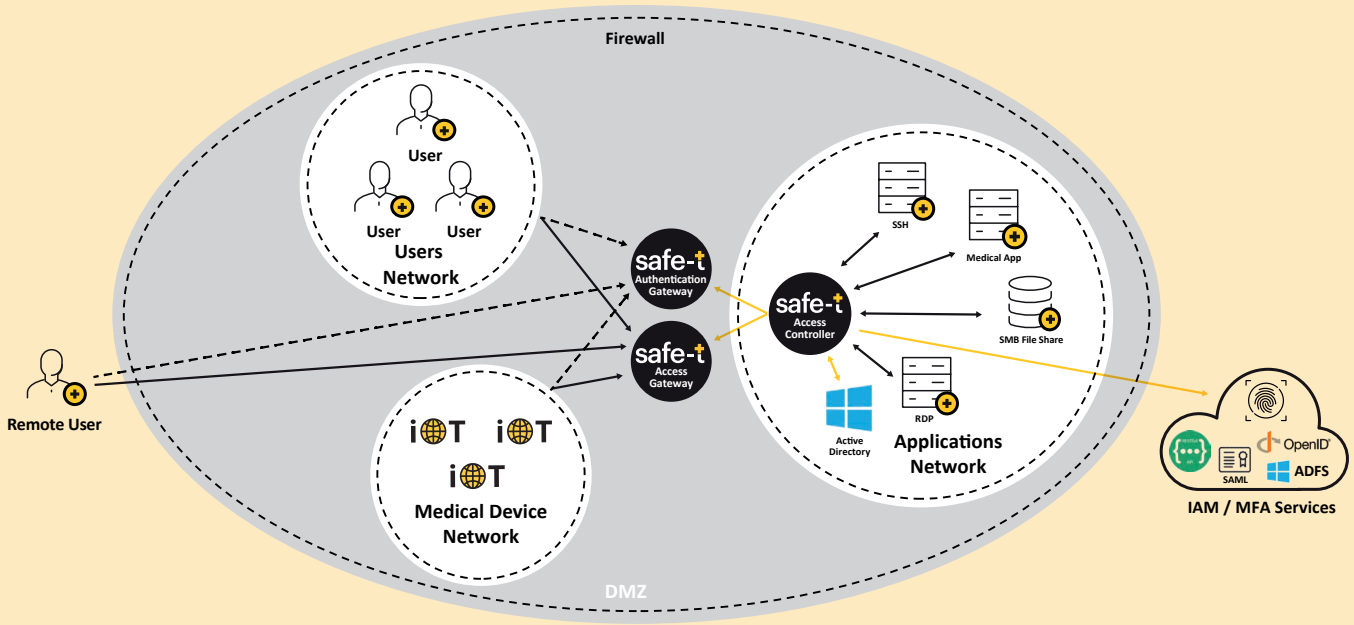
Safe-T ZoneZero allowed the hospital to support all remote access scenarios:

- **All user types** – people (managed or unmanaged), applications, APIs and connected medical devices
- **All user locations** - external or internal
- **All application types** - new or legacy
- **All application locations** - cloud or on-premises

Safe-T ZoneZero offers secure and transparent and controlled access for all types of entities (people, applications, and connected devices) to any internal application, service, and data, such as HTTP/S, SMTP, SFTP, SSH, APIs, RDP, SMB, and WebDAV.

Safe-T ZoneZero implements Safe-T's patented reverse-access (outbound) technology which eliminates the need to open incoming ports in the organization's firewall. This technology allowed the hospital to logically segment their networks, preventing lateral movement between IT, OT, medical device networks.

As can be seen in the below diagram, the hospital deployed Safe-T's ZoneZero solution within their network, as follows:



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Features & Benefits Include:

- Clientless – seamless implementation
- Scales precisely according to usage
- Simple, cost effective, and secure deployment
- Fast deployment
- Protect networks from attacks
- Enhance Zero Trust Network security
- Improve data security by closing incoming firewall ports
- Based on Safe-T's patented Reverse Access
- Non-web protocols ready – SMB, RDP, SSH, file shares, medical systems, EMR, any TCP
- Support humans, application, and connected medical devices
- Supporting re-challenging users with MFA when accessing specific applications
- Application access control for network connected (internal) users
- Integration with leading VPNs – adding ZTNA to existing VPNs
- Reporting on all user and application activity
- Comply with HIPAA regulations
- Remove vulnerable SMB protocols, reducing the risk of ransomware

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