

# RDP Connection Between Two Sites – ZoneZero® SDP

## High Level Use Case

The use case describes deploying ZoneZero SDP to enable a connection to an RDP gateway located in physical location A by an RDP client located in physical location B. This use case does not require using an MPLS, SD-WAN, or VPN connection

## Target Market/Customers

- + Globally located organizations
- + Organizations with branches and HQ
- + Large enterprises

## The Challenge

Many organizations today have requirements to connect applications and resources they have located in their internal network, with users located in other physical locations. Some examples include:

- Energy company with a remote site which is managed from the HQ
- Branch office connecting to resources in a data center
- Remote contractor performing maintenance to a system in the company's data center

Today to allow such remote cross geography connections, organizations deploy technologies such as MPLS, SD-WAN, or VPNs. Each of these solutions have their own deficiencies.

- + **Connecting using MPLS** – point-to-point connection. While it provides the required connectivity, it is a quite expensive solution, which isn't always available in all locations around the globe
- + **Connecting using SD-WAN** – While it provides the required connectivity, it does not fit all originations or use cases. For example, regulated organizations which cannot consume a cloud service. From a firewalling and networking approach, SD-WAN vendors require opening the organizations firewall to the cloud vendor's cloud, which dramatically increases the organization's attack surface
- + **Connecting using a VPN** – this approach has many deficiencies including: (1) requires a client application, which means it does not support all use cases, such as app-to-app; (2) creates a layer 2 connection between both locations, which increase the attack surface; (3) exposes the organization's firewall and network to the outside world; (4) VPN are known to have vulnerabilities

## The Need

There is a need then for a solution which will allow securely connecting two application components or a user and application located in two different geographical locations, without exposing the networks, or utilizing expensive and complex solutions

## ZoneZero® SDP Solution

Safe-T's ZoneZero SDP changes the way organizations grant secure external access to their services.

This product is part of the ZoneZero Perimeter Access Orchestration platform that provides central management of all secure access technologies and helps organizations achieve Zero Trust Network Access (ZTNA).

ZoneZero SDP offers secure and transparent 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, and WebDAV.

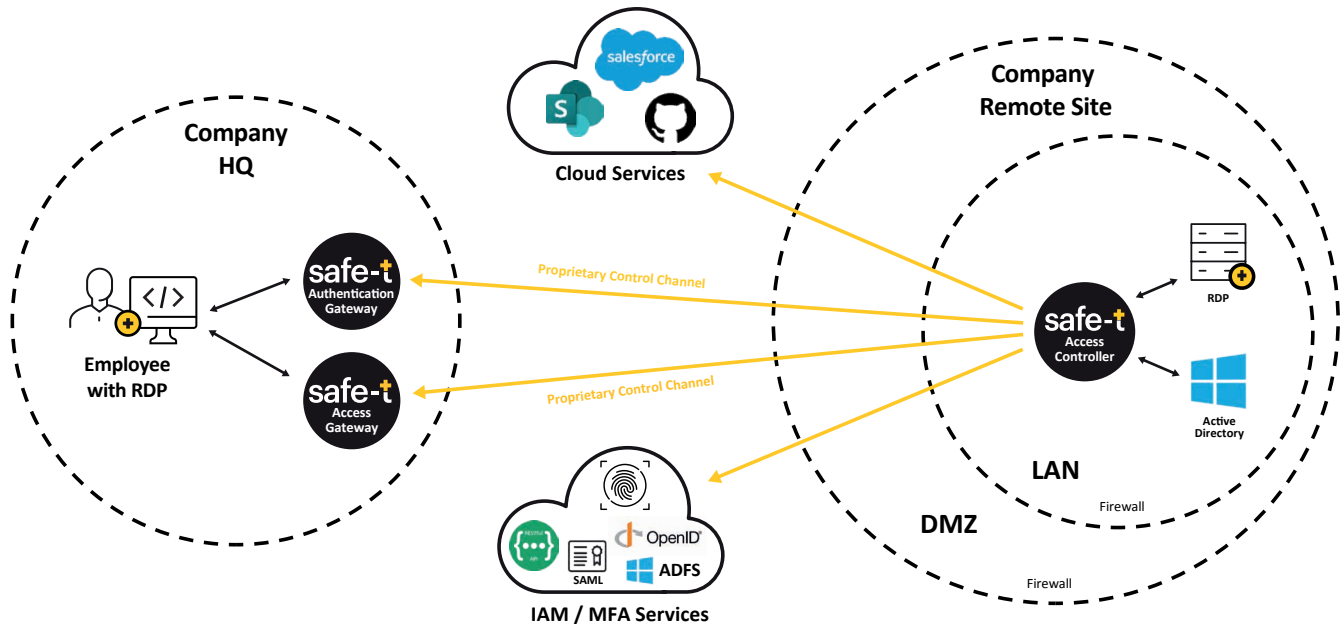
ZoneZero SDP implements Safe-T's patented reverse-access (outbound) technology which eliminates the need to open incoming ports in the organization's firewall.

As can be seen in the below diagram, the solution is used to connect an RDP client located in the company HQ with an RDP Gateway located in the company's remote site. We achieve this by deploying an Access Controller in the remote site and connecting it to the Access and Authentication Gateways who are located in the company HQ.

### The flow of traffic is as follows:

1. The user enters the credentials into the **Authentication Gateway portal**
2. The **Access Controller** retrieves the credentials from the Authentication Gateway over a reverse-access connection, and then authenticates the user using the organization's IDP/IAM (e.g. Active Directory)
3. Once the user is authenticated, the Access Controller instructs the Authentication Gateway to display to the user the allowed RDP gateway, and instructs the **Access Gateway** to provide (reverse) access to the specific user to the RDP gateway
4. The user accesses the newly published RDP gateway via the **Access Gateway**

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## Features & Benefits Include:

- + Clientless – seamless implementation
- + Works in parallel with existing technologies (VPN)
- + Scales precisely according to usage
- + Simple, cost effective, and secure deployment
- + Easily connect remote locations
- + 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, any TCP
- + Cloud and on-premises implementations
- + Connect remote located networks and same location networks
- + Support humans, application, and connected devices

## Frequently Asked Questions (FAQ)

- + **Is your solution software based or hardware based?**  
Our solution is software based.
- + **Does your solution require modifications to applications?**  
No, our solution does not require any changes to applications.
- + **Can you Safe-T ZoneZero SDP replace a VPN or MPLS?**  
Yes, our solution can replace a VPN or MPLS for the specific discussed use case.
- + **Do we have basic logging functions which are included in the core package?**  
Yes, our solution includes logging of administrator and user actions.
- + **Which applications does your solution support?**  
Safe-T ZoneZero SDP supports passing traffic to any TCP based application
- + **Which types of users does your solution support?**  
Safe-T ZoneZero SDP supports traffic from human users, applications, and connected devices
- + **Can your solution be used to connect networks located in separate physical locations?**  
Yes, our solutions can be used to connect networks located in separate physical locations, cloud networks to datacenter networks, etc