Secure JIT and JEA-Based Access for International Manufacturer in the Forest Industry
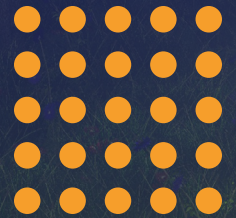
Developed Unique Solution Tailored to Customer Requirements

Customer Background

This particular customer is a manufacturer of fiber products, wood products, molecular bioproducts, and low-emission energy for the forest industry. Their mission is to create value from renewable and recyclable raw materials by synthesizing them with their powerful technology and unrivaled expertise. The customer has 54 sites in 12 countries around the world.

Challenge

The customer lacked a "gatekeeper" solution for facilitating secure and transparent remote access for its trusted automation vendors into its multiple production sites. They were looking for a solution that offered increased granularity and layered security, with the following requirements:

- Support for the following connection protocols: RDP, VNC, SSH, HTTP/HTTPS

- An efficient and reliable approval process for session requests

- Limitations on vendor ability to view other vendor options when requesting access

- Capability for AV-checking files

- PLC access from native client to machine outside of common protocols (e.g. Siemens SIMATIC)

- Capability to allow both internal and external users to access target devices remotely

- Capability for each individual site to manage its own access and approval processes

Solution

SSH worked very closely with the customer to devise a solution that meets their unique requirements. We helped them understand the required features to achieve their objectives and the potential architecture.

SSH committed to developing features not existing in the proposed solution; Network Target access (PLC access using existing customer VPN infrastructure), Plain VNC access, and ICAP.

Having listened to the customer's objectives, SSH identified the key obstacles and devised features explicitly designed to overcome them and deliver on wider customer goals. SSH assisted with POC deployment.

SSH

Results

Once installed across all sites, the solution will enable the customer to provide its trusted vendors with secure access, in alignment with the JIT and JEA principles. This will allow external users to request approval for session-specific access.

Via our SSH PrivX solution, the customer is able to manage all access for internal and external users, with support for the necessary protocols.

Other features include:

- Ability to proxy VPN traffic to PLC machines

- Sessions may be requested through the delivered solution

- Rapid, user-friendly, and secure process for requesting and approving sessions thanks to better useability and removal of standing privileges

PrivX also allows the customer's individual sites to individually configure and manage required users, roles, and end targets. This is facilitated by the RBAC approach and integrated workflow engine, which differentiated SSH's solution from competing providers.

Let's get to know each other

Want to find out more about how we safeguard mission-critical data in transit, in use, and at rest for leading organizations around the world? We'd love to hear from you.

Request a Demo

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