



## Strong, flexible identity and access management, built collaboratively

Solving complex identity and access management issues for an organisation often requires finesse, collaboration and the ability to creatively meet the needs of all aspects of the business with a single solution. One global biopharmaceutical company discovered the power of collaboration as it worked to replace an existing access management implementation, harmonising two distinct populations (enterprise and manufacturing) representing 47,000 users.

The company knew it needed to replace its single sign-on (SSO) solution, as its existing technology was neither flexible nor strong enough for the organisation's complex network of relationships and environments. Although each of the work groups presented its own unique challenges, the manufacturing team's needs were considerably more complex.

- Enterprise users represented a more traditional federation in which access to applications was integrated for SSO, leveraging existing network authentication.
- Manufacturing users required greater network security and deployment of a separate, dedicated global tenant with no trust. Access from the corporate network to the manufacturing network was also restricted, and direct access to the internet was forbidden in certain layers of the architecture.

 A primary concern in the manufacturing environment was ensuring control for users when registering a device for multi-factor authentication (MFA).

A leading security provider was identified to supply technology and expertise after confirming the provider's platform met all the business and technical requirements for identity and access management (IAM) of the internal workforce, business partners and customers.

After confirming the alignment of business and technical requirements, the company's IAM team, along with the security provider's solution architects and Protiviti resources, completed a collaborative and successful proof-of-concept (POC). The POC enabled the company to illustrate a new approach to its manufacturing users as a solution for their specific MFA needs. This POC gave the company confidence in the design and solution stack, after

Together, the company, identity security provider and Protiviti architected, installed, configured and tested 18 sites and 48 servers across three environments, and replaced an existing access management implementation for its 120 federations comprised of 47,000 users.

which it engaged the security provider and Protiviti to deliver a new identity and access management architecture, design and implementation project.

Together, the company, identity security provider and Protiviti architected, installed, configured and tested 18 sites and 48 servers across three environments. The team also replaced an existing access management implementation for its 120 federations comprising those 47,000 users. This required eight enterprise federation servers globally located in different network layers that also integrated an MFA solution and adaptors for registration, impersonation and environment selection.

The resulting solution was more complex and feature-rich, making it possible to improve services to the organisation. This will allow the company to integrate applications using a variety of identity and access management methods.

- Within the enterprise group, managing policies for step-up authentication
  were used as needed, depending on whether the policy for the application
  required it or access was authorised from external network connections,
  or both. The flexibility of the MFA solution and device methods improved
  the user experience.
- The manufacturing solution required MFA to the production environment
  to access the applications on thin clients. Outbound requests to facilitate
  MFA leveraged global enterprise application delivery controllers (ADCs) to
  proxy the requests. Inbound communication from the MFA solution to the
  enterprise federation server engines leveraged separate manufacturing
  ADCs. Remote access was facilitated with Security Assertion Markup
  Language (SAML) based connectivity through a firewall.
- Additionally, in the manufacturing environment, the registration
   adapter and provisioning of users from the identity management
   system secured the registration of the initially provisioned device.
   Limitation of devices was also enforced. Initially, users were restricted
   to short message service (SMS) texts; only after successful multi-factor
   authentication could they select a secondary device and potentially
   switch primary devices. The impersonation and registration adapters
   were deployed in parallel to allow preregistration of security keys and
   hardware authentication devices.

Additional benefits will accrue in future phases of the project, including:

 Separation of populations with different user lifecycle management needs, application access needs and authentication policy requirements.
 These benefits will be realised with deployment of the identity security stack and identity management services.

protiviti.com Client Story · 2

## CLIENT STORY

The resulting solution was more complex and feature-rich, making it possible to improve services to the organisation. This will allow the company to integrate applications using a variety of identity and access management methods.

 Consistent global services across the organisation's group of companies, allowing the withdrawal of technologies and consequential licencecost savings. These benefits will be realised with deployments to the organisation's sister company and its key global manufacturing, research and clinical applications.

As enterprises develop new approaches and engage third parties to fulfil new roles, the complexity of identity and access management presents a growing challenge. By collaborating with best-of-breed third parties to achieve a strong, flexible solution to complex identity and access management requirements, this company forged a new path that enabled their broad network of collaborators to engage with their network of systems.

Protiviti (www.protiviti.com) is a global consulting firm that delivers deep expertise, objective insights, a tailored approach and unparalleled collaboration to help leaders confidently face the future. Protiviti and our independent and locally owned Member Firms provide clients with consulting and managed solutions in finance, technology, operations, data, analytics, governance, risk and internal audit through our network of more than 85 offices in over 25 countries.

Named to the 2021 Fortune 100 Best Companies to Work For® list, Protiviti has served more than 60 percent of Fortune 1000 and 35 percent of Fortune Global 500 companies. The firm also works with smaller, growing companies, including those looking to go public, as well as with government agencies. Protiviti is a wholly owned subsidiary of Robert Half (NYSE: RHI). Founded in 1948, Robert Half is a member of the S&P 500 index.

