

Whitepaper

The challenge of anywhere access to ERP systems

Introduction: the era of the anywhere workforce

As businesses continue to adapt to the realities of a remote and hybrid workforce, seamless access to enterprise applications like ERP systems has become a critical necessity. ERP solutions, which play a central role in managing core functions such as human resources, sales, inventory, and supply chain management, are often rooted in legacy infrastructure. These systems were traditionally designed for on-premise use, creating significant challenges for organizations striving to meet the demands of a distributed workforce.

The rise of the “Anywhere Workforce” has exposed the limitations of these systems, particularly in providing secure, efficient remote access. Organizations are now tasked with finding solutions that extend the usability and functionality of their ERP systems to remote users without undergoing costly, time-consuming migrations.

The complexity of ERP migration



Data Quality Issues

Legacy ERP systems often contain redundant or inconsistent data that must be meticulously cleaned and validated before migration.



Integration Challenges

ERP systems are tightly coupled with other business applications, making seamless integration with modern platforms difficult.



Cost and Time Overruns

The resources required for migration are often underestimated, leading to budget and schedule overruns.



Change Management Resistance

Employees accustomed to legacy systems may resist adapting to new workflows, necessitating comprehensive training and engagement strategies.

Thinfinity: bridging the gap with hybrid access

Thinfinity offers a transformative approach to addressing the challenges of ERP system accessibility. By leveraging a cloud gateway to enable hybrid access, Thinfinity bridges the gap between legacy ERP systems and modern remote work requirements.

This hybrid model allows organizations to maintain their on-premise ERP systems while providing secure, browser-based access for remote users.

Key features of Thinfinity hybrid access



Cloud Gateway Integration

Thinfinity’s cloud gateway securely channels remote access requests to on-premise ERP systems, eliminating the need for traditional VPNs.



Web-Based Accessibility

ERP systems are made accessible through any HTML5-compliant browser, ensuring seamless usability across devices without additional installations.



Device-Agnostic Access

Users can access ERP systems from desktops, laptops, tablets, and smartphones running on Windows, macOS, Linux, iOS, or Android.




Zero Trust Network Access (ZTNA)

Thinfinity’s ZTNA framework ensures secure, granular access controls and enforces least-privilege principles for all users.

Virtualizing ERP systems with RDC and VirtualU


Thinfinity’s capability to virtualize or “webify” ERP systems extends their functionality without the need for extensive overhauls. Leveraging protocols such as Remote Desktop Protocol (RDC) and VirtualUI, Thinfinity transforms ERP applications into modern, browser-accessible platforms.

RDC and VirtualUI capabilities



RDC integration

Thinfinity supports full desktop virtualization and individual application publishing through RDC, enabling secure and responsive ERP access.



VirtualUI protocol

Thinfinity’s VirtualUI allows legacy ERP apps to be webified with minimal code changes, delivering a native web application experience.

Benefits of virtualization and webification



Rapid Deployment

Webifying ERP systems requires only minor code adjustments, enabling quick deployment.



Browser-Based Simplicity

Users can access ERP systems via any modern browser without additional client-side software.



Enhanced Performance

Thinfinity’s optimized protocols ensure low latency and high responsiveness for remote users.

Cloud compatibility and cloud manager capabilities



Cloud Compatibility

Thinfinity integrates seamlessly with all major cloud providers, allowing organizations to choose the platform that best suits their needs. Supported providers include:

Amazon Web Services (AWS)

Thinfinity optimizes ERP deployment in AWS environments with scalable EC2 instances.

Microsoft Azure

Integrates with Azure Virtual Desktop for hybrid or fully cloud-based ERP solutions.

Google Cloud Platform (GCP)

Supports secure, web-based ERP access in GCP-hosted environments.

Oracle Cloud Infrastructure (OCI) and IBM Cloud

Maintains compatibility with specialized cloud platforms for maximum flexibility.



Cloud Manager Capabilities

Thinfinity's cloud management features simplify ERP access and scalability:

Centralized Resource Management

Admins can manage, monitor, and provision ERP resources from a unified dashboard.

Load Balancing

Supports multiple connection servers to ensure high availability and performance.

Elastic Scalability

Enables dynamic scaling to meet user demands.

Multi-Tenant Support

Allows resource partitioning for secure, isolated access by different user groups.

Identity Management Integration

Supports Active Directory, Azure AD, and Google Workspace for consistent user authentication.

Security Features and Compliance

Thinfinity integrates seamlessly with all major cloud providers, allowing organizations to choose the platform that best suits their needs. Supported providers include:



Audit Logging

Monitors and records user activity for compliance and governance.



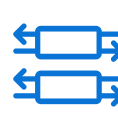
Multifactor Authentication (MFA)

Reinforces login security with advanced authentication methods.



Data Loss Prevention

Disables local data saving and clipboard functionality to prevent leaks.



SSL/TLS Encryption

Protects data in transit.



Granular Access Controls

Enforces role-based access restrictions.

Conclusion: modernizing ERP access with Thinfinity

Thinfinity's hybrid access model empowers organizations to extend the life of their legacy ERP systems while embracing the demands of a distributed workforce. By combining RDC and VirtualUI virtualization, comprehensive cloud compatibility, robust cloud management, and industry-leading security features, Thinfinity delivers a modern, scalable solution for ERP accessibility.

Organizations no longer need to choose between maintaining legacy systems and adopting cloud technologies. Thinfinity enables a seamless transition to the era of hybrid work, offering the best of both worlds. To explore how Thinfinity can transform your ERP access strategy, contact us for a demo today.

Contact



Office

[Draper, UT, 84020, USA](#)



International

[+1 \(302\) 892-9625](#)



Email

sales@cybelesoft.com



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