

Enterprise-grade security for fab data - delivering role-based, audited access to Exensio™ Control Distributed without exposing the fab network.



Secure, Identity-Aware Access for Fab Systems

Exensio® Control Distributed 3-Tier solution secures **access to fab-critical data** by enforcing **encrypted, identity-aware, role-based connectivity** between users and fab services.

It replaces legacy access models with an architecture designed for **scale, auditability, and data protection**.

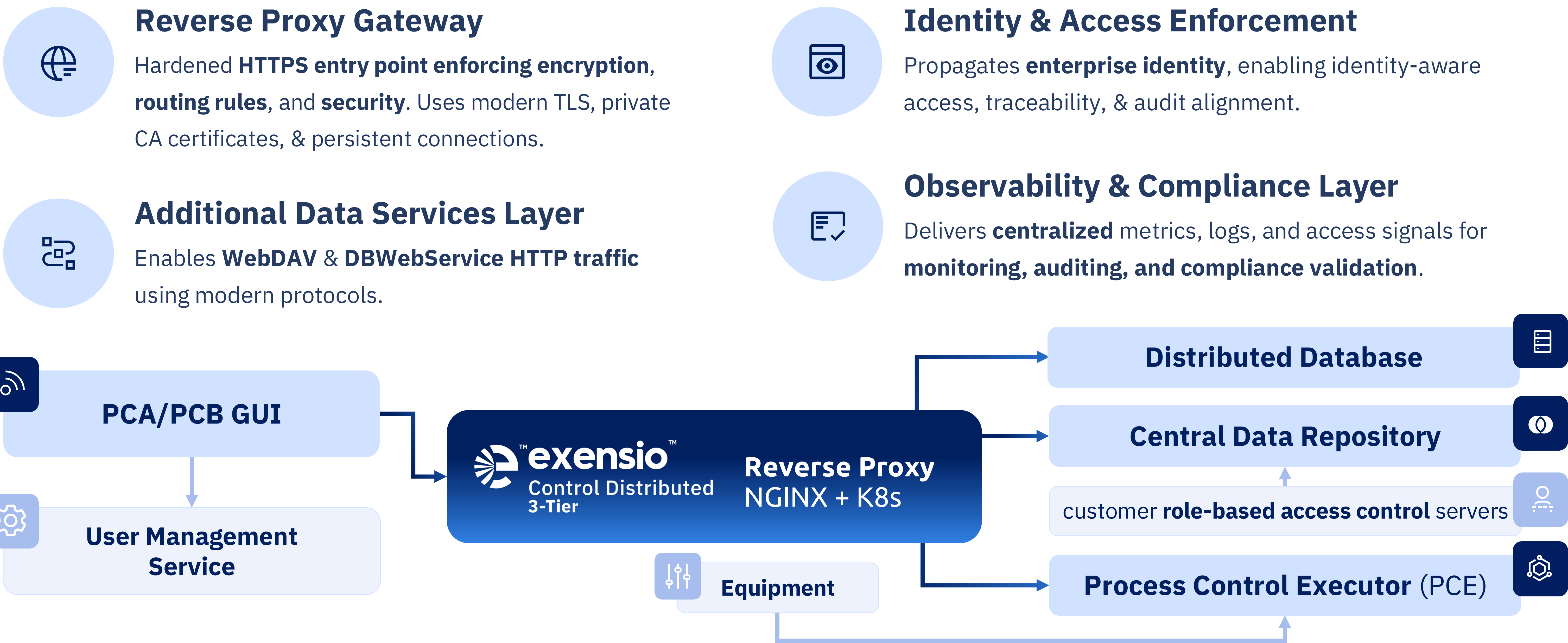
Problem with Status Quo

Traditional Exensio Control Distributed deployments depend on **generic security, flat networks, and minimal encryption, limiting control** over who accesses sensitive fab data. These approaches increase attack surface, reduce visibility, and fail to meet modern enterprise security and compliance requirements.

Solution Highlights

- Role-based, identity-aware fab access**
- Security** with end-to-end **encryption**
- Centralized **visibility, audit, and control**

Components



Use Cases

Securely Replacing Citrix® in the Fab

A global semiconductor manufacturer needed to remove Citrix while maintaining **strict fab network isolation and data protection**.

Exensio® Control Distributed 3-Tier enabled access to Exensio Control Distributed front-ends over HTTPS, preserving **existing backend systems** while upgrading **security, identity enforcement**, and **operational resilience**.



Challenge

Citrix and direct network access created **high cost, limited identity control**, and **insufficient visibility** into fab data usage.



Result

Secure, audited access with enterprise SSO, reduced **operational risk** & improved **performance**.



Challenge

Flat networks and legacy protocols **prevented fine-grained access control** & increased the **risk of data exposure**.



Result

Using **Exensio Control Distributed 3-Tier**, teams enabled **encrypted, identity-aware** access with **centralized auditing** & **scalable endpoints**.

Role-Based Fab Data Access at Scale

With thousands of tools and endpoints per fab, IT teams needed a way to **control who could access sensitive manufacturing data** - without redesigning Exensio Control Distributed services.

The Reverse Proxy architecture **centralizes access control, encryption, and monitoring** while maintaining legacy systems with minimal changes.

Controlled,
role-based access to
fab-critical data

Reduced attack
surface by eliminating
legacy access paths

Enterprise security
without disrupting fab
operations

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