

The Rublon logo consists of the word "Rublon" in white, bold, sans-serif font, centered within a dark blue rounded rectangle. A horizontal green bar is positioned directly below the blue rectangle.

Rublon

Rublon MFA Architecture

**Scalable MFA Architecture
designed for integration
with the customer's existing infrastructure**

A decorative graphic at the bottom of the page features several overlapping, wavy shapes in shades of blue and green, creating a layered, wave-like effect.



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1. Introduction

Rublon MFA solution helps organizations implement **strong multi-factor authentication without rebuilding existing identity systems**, user directories, and login paths.

This approach works well in **large organizations, as well as in public administration, regulated companies**, and teams that need a fast and predictable implementation path.

Rublon MFA Architecture combines **scalability** with the **flexibility of integration**:

- **Scalability** is particularly required in dynamically developing and distributed environments.
- **Integration flexibility** is necessary where [Active Directory](#), [Entra ID](#), [LDAP](#), [RADIUS](#), [SAML](#), and custom applications are already in place.



Where do scalability and flexibility matter most?

- public administration
- enterprise
- regulated organizations
- hybrid infrastructure
- SMEs

2. Why Does MFA Matter?

Organizations expect MFA to protect various types of resources. At the same time, the implementation **should not** require replacing the user directory, migrating to a new identity source, or rebuilding existing authentication paths.

Enterprise organizations, public institutions, and regulated companies need a solution that, on the one hand, **will provide central management of policies, MFA methods, and access**, and on the other hand, will **fit into existing infrastructure**.

In practice, organizations **expect four things from the MFA platform**:

- integration with the existing environment,
- central management,
- support for a growing number of users and systems,
- easy implementation.

3. Rublon MFA: Scalability and Flexibility

Modern organizations need MFA that **can be implemented broadly without interfering with the foundations of the existing environment**.

Rublon MFA was built specifically for this kind of scenario.

We do not replace your user directory or identity source. Instead, **we expand the existing environment** with an MFA layer that can protect different resources and login paths in a consistent way.

The approach we chose **shortens implementation time, limits architectural changes, and increases operational predictability**.

Rublon MFA adds strong MFA where your organization needs it, without forcing you to change what already works.

Rublon MFA integrates with existing customer identity and authentication infrastructure, such as **Active Directory** and other user directories, and supports standard integration protocols, including **LDAP, RADIUS, and SAML**. Depending on the use case, we provide the [Rublon](#)

[Authentication Proxy](#), [Rublon Access Gateway](#), native connectors, the [Rublon REST API](#), and the [Rublon SDK libraries](#).

"A good MFA solution should protect your existing environment instead of forcing you to rebuild it. That's why Rublon MFA combines scalability with integration flexibility, so organizations can expand access protection without replacing their existing identity and authentication infrastructure."

Patryk Suchorowski, IT Architect at Rublon

4. Rublon MFA Architecture

The Rublon MFA architecture consists of two layers:

- **central platform**, responsible for MFA logic and management,
- **integration layer**, which connects the platform to customer resources and existing authentication systems.

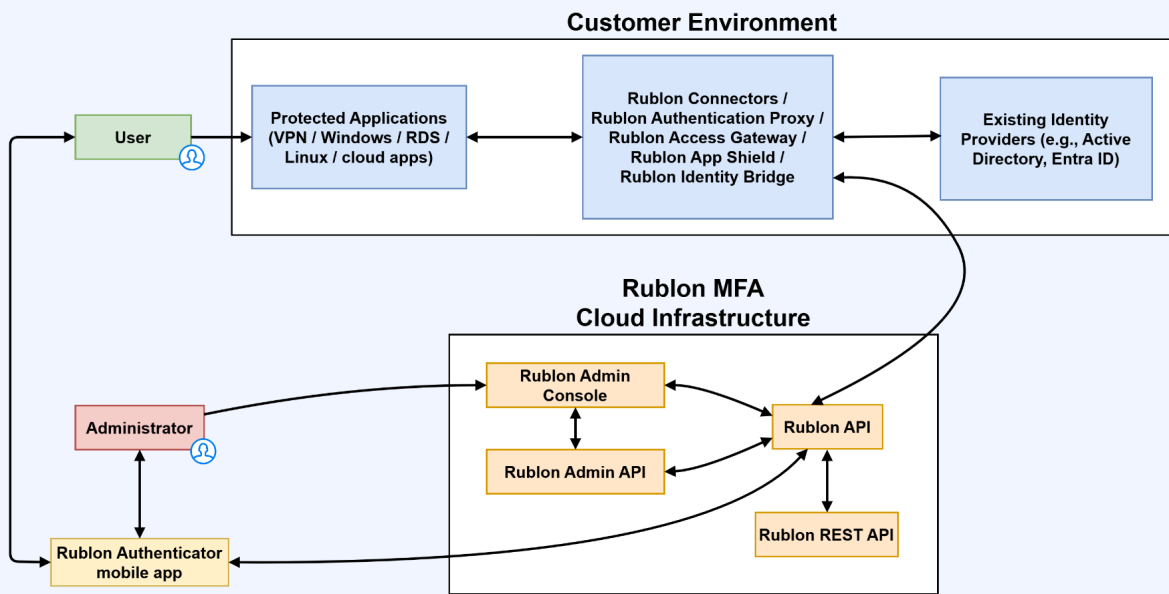
The central element of the architecture is the **Rublon API**. This is where the administrative components and the integration elements used across different deployment scenarios connect.

The most important elements of the Rublon MFA architecture:

- **Rublon API** – the central core of the platform
- **Rublon Admin Console** – organization, user, and settings management
- **Rublon Admin API** – secure software access to administrative functions
- **Rublon REST API** – MFA integration with custom applications
- **Rublon Authentication Proxy** – RADIUS and LDAP integrations
- **Rublon Access Gateway** – SAML integrations
- **Rublon Identity Bridge** – OAuth 2.0 integrations
- **Rublon App Shield** – MFA for web applications that requires no code changes
- **Rublon connectors** – native components installed in the client environment or in a cloud application

- **Rublon Authenticator**— end-user mobile app used for selected MFA authentication methods in the Rublon MFA ecosystem.

General Architecture of Rublon MFA



5. Three Pillars of the Rublon MFA Architecture

Pillars of the Rublon MFA Architecture

Security

- Strong MFA for users and administrators
- Centralized management and auditing
- Penetration testing and 24/7 monitoring
- ISO 27001 and GDPR compliance

Scalability

- Millions of authentications every month
- Scales with increasing environmental complexity
- Supports multiple integrations and login scenarios
- Operational consistency at a growing scale

Simple Integration

- Integration with the existing environment
- Protection of multiple technologies within a single architectural model
- Components for different deployment scenarios
- Deployment without rebuilding the infrastructure

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Security

Rublon MFA supports protecting access to an organization's IT infrastructure by enabling central management and providing visibility into login and administration events.

Scalability

The Rublon MFA architecture is designed to support the growth of users, integrations, applications, and login scenarios without compromising operational consistency.



Simple Integration

Rublon MFA enables you to quickly strengthen your security without rebuilding your existing environment. It can be rolled out gradually as an extension of your current infrastructure rather than a replacement.

6. Scalability Built for Your Infrastructure

Rublon MFA handles **millions of user authentications every month**, but MFA scalability is about more than just user count. It comes from a cloud architecture designed to support increasing volumes of logins, integrations, and administrative operations in a predictable and consistent way, as well as the growing number of resources, authentication methods, administrators, integrations, and events the platform must handle consistently.

Rublon MFA supports organizations of all sizes—from smaller environments to large deployments spanning many user groups and multiple system types. Today, Rublon MFA supports **over 700 customers in more than 70 countries**, mainly in Europe and North America. Some customer organizations have **thousands of users**.



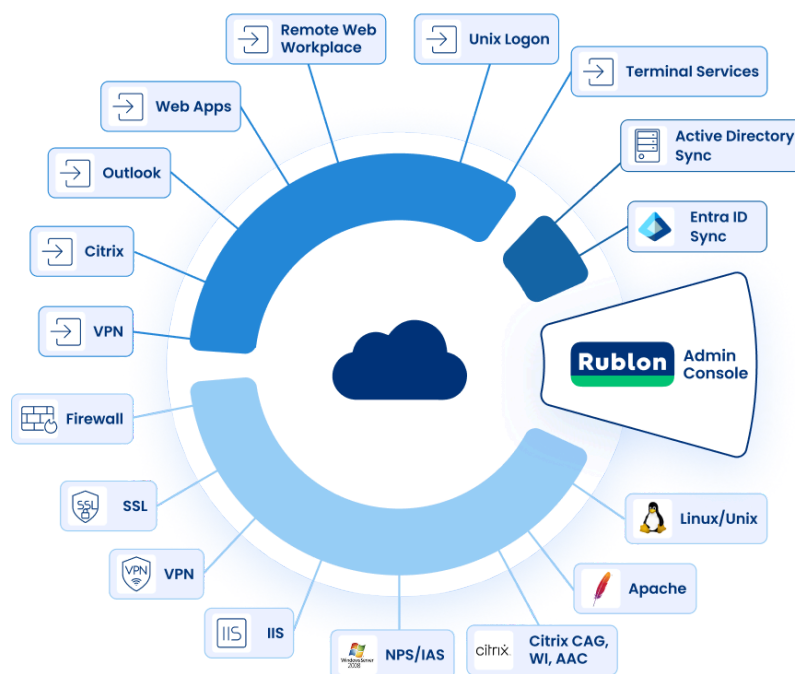
7. Seamless Integration With Your Environment

The Rublon MFA architecture does not require replacing existing systems. Instead, the solution integrates with what the organization already has. This allows us to protect [VPNs](#), [Windows Logon](#), and [Remote Desktop Services \(RDS\)](#), as well as [web applications](#), [cloud applications](#), [administrative systems](#), and [custom applications](#).

Rublon MFA deployment can be **adapted to existing login processes and existing access architecture**, which allows you to:

- secure many legacy systems,
- Meet the [regulatory requirements](#) of various industries,
- guarantee precise administrative [access control](#),
- ensure a predictable and short implementation.

In larger environments, an additional value comes from [synchronizing users, aliases, and groups from Active Directory and Entra ID](#), which simplifies onboarding and administration.



8. Full Control and Security at Every Stage

An effective MFA architecture encompasses not only [authentication methods](#), but also management, administrative control, and auditing.

Rublon MFA provides **central management via the Rublon Admin Console**. [Logs](#) of user authentications and administrative activities increase operational visibility, facilitate the detection of irregularities, and support incident analysis.

Our approach also encompasses operational maturity and service security. We are **ISO 27001 certified** and **fully compliant with GDPR**. Our declared **monthly SLA is 99.9%**.

Rublon MFA's cloud architecture is built in a **multi-tenant model** and runs on AWS. It includes **load balancing, backup, and selected high-availability mechanisms** that support the stability of the service and its continued scalability.

The solution uses **regional AWS infrastructure**, which enables the platform to **grow in a controlled way and adapt to operational, performance, and data-processing requirements**. This model supports both the ongoing reliability of the service and the continued evolution of the architecture.

We regularly conduct **penetration tests** of our infrastructure and software. Our infrastructure is **monitored 24/7** by a certified AWS partner, with a guaranteed **incident response time of 30 minutes**.

The Rublon MFA architecture is built to deliver **service stability, operational security, and long-term platform growth** as the **number of protected logins and integrations continues to rise**.

- ISO 27001
- multi-tenant model
- AWS infrastructure
- load balancing
- 24/7 monitoring
- incident response within 30 minutes
- compliance with GDPR, NIS2, DORA, PCI DSS 4.0, NIST SP 800-63, and other regulations

9. Flexible Deployment Options for Every Organization

One of the advantages of the Rublon MFA architecture is that it can support **different deployment models without requiring changes to the fundamental principles**. This means the same architecture can be used in complex, regulated, multi-team environments as well as in organizations that need a simple, predictable deployment for specific access scenarios.

Examples of Supported Types of Organizations

Enterprise	Public Administration	SMEs and Emerging Organizations
<ul style="list-style-type: none">• centralized management• wide range of integration• ability to protect multiple resources and teams	<ul style="list-style-type: none">• clear trust boundaries• administrative access control• predictable deployment• integration with AD and LDAP	<ul style="list-style-type: none">• quick start• simple integration• protection of key resources without costly environment redesign

10. Rublon MFA in Practice

Rublon MFA is deployed across environments with **varying risk profiles, organizational models, and compliance obligations**. Implementations span the [financial sector](#), [municipal services](#), [public administration](#), and [technology companies](#). The common denominator is the need for predictable MFA deployment that integrates with existing systems and reflects actual authentication workflows.

Customer Examples



Deployment Examples

<h3>Municipal Office in Zbaszyn</h3> <p>MFA for Windows 10 and 11, VPN connections, administrative access via RDP and SSH, and selected domain systems. Users are synchronized from Active Directory to the Rublon Admin Console, and the full deployment was completed within four days.</p> <p>Read more</p>	<h3>The Karczew Cooperative Bank</h3> <p>MFA for VPN. Synchronization with Active Directory without the need for additional hardware, downtime, or high costs. The client's strong focus on regulatory compliance and ease of management aligned perfectly with the capabilities of Rublon MFA.</p> <p>Read more</p>
<h3>EKO-Raszyn</h3> <p>Secure VPN access. Rapid integration with the existing environment was completed in a single day.</p> <p>Read more</p>	<h3>Polish HVAC Sector Company</h3> <p>MFA for Windows and VPN in the context of the NIS2 directive and the Polish National Cybersecurity System Act.</p> <p>Read more</p>

11. Architecture Designed for the Needs of Modern Organizations

Access security should not slow down organizational growth. It should not force the replacement of existing systems, disrupt proven processes, or require separate deployment models for every type of resource.

Rublon MFA was created to **combine strong multi-factor authentication with an architecture that remains flexible, predictable, and scalable**. As a result, it supports enterprise environments and public administration just as effectively as organizations that need a fast deployment without compromising security.

Rublon MFA provides modern organizations with an MFA architecture that **strengthens security today and remains ready for the demands of tomorrow**.



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