

Element update: Shininess, scalability and sustainability.

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Remember 2024?



Matrix 2.0!

Element X.



 **element Server Suite**

Mission Accomplished?



Feedback from last year...

Where is the Matrix 2.0 Spec?

I have millions of users, does ESS really scale?

Can I get a helm chart for ESS?

Where are Spaces and Threads in Element X?

What about an admin console?

Is this even running on Matrix.org?

Is there a FOSS version of ESS with an upgrade path?

Can we brand the client and manage it remotely?

What about Element Web, when will it get the Element X treatment?

Company update

- We're on a much more stable and sustainable track
- Developed the Pro family of subscription products
- Remodelled the business around subscriptions



openDesk
Der Souveräne Arbeitsplatz

BARMER



Pro vs Community, what does it mean?



- FOSS under AGPL
- Empowers the individual e.g.
 - Instant sync
 - Device cross signing
 - Threads



- Proprietary
- Empowers the organisation e.g.
 - Company directory integration
 - Mobile device management
 - Audit logs
 - Cyber Resilience Act compliance

Product Update



Synapse Pro

Synapse Pro Available to ESS

ESS TIM in the wild

ESS Pro TI Messenger
Element Pro Mobile
ESS Community

Gearing up for Autumn

Documentation Hub

ESS Pro comes of age

ESS Pro Launch
Element Admin Launch
Element Pro Web
Element X for Web
Spaces and Threads in
Element X

ESS Pro comes of age and Element Pro Launches

So how did we do?



Welcome to 2025!



Can I get a helm chart for ESS?

✓ ESS Pro and Community are both based on helm



What about an admin console?

✓ Element Admin is your friend



Is there a FOSS version of ESS with an upgrade path?

✓ ESS Community to the rescue



Welcome to 2025!

I have millions of users,
does ESS really scale?

✓ Synapse Pro is
Rustilicious.

Is this even running on Matrix.org?

✓ Yes, as of April

Where are Spaces and
Threads in Element X?

✓ Spaces and Threads
(labs) landed last week



Welcome to 2025!

Can we brand the client and manage it remotely?

✓ Element Pro has you covered

What about Element Web, when will it get the Element X treatment?

✓ New member list, new room list, new architecture with plenty more to come.

Where is the Matrix 2.0 Spec?

✓ Of 23 MSCs 11 are merged 5 are up for FCP (or later). 7 MSCs (MatrixRTC) in final stages.

Dive into ESS.



element Server Suite

Community

Non-professional deployments
and evaluations

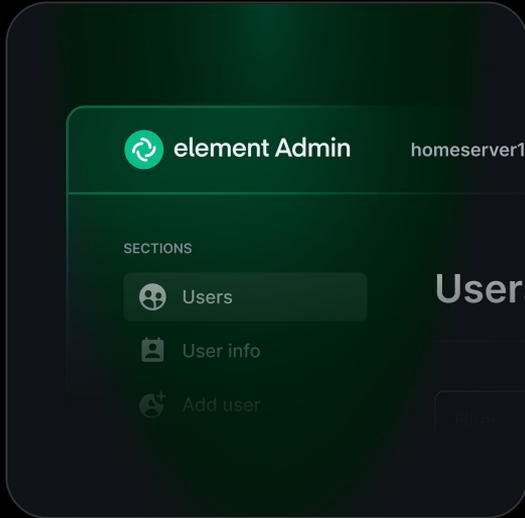
PRO

Professional use, enterprise-grade
performance and features

TI-Messenger

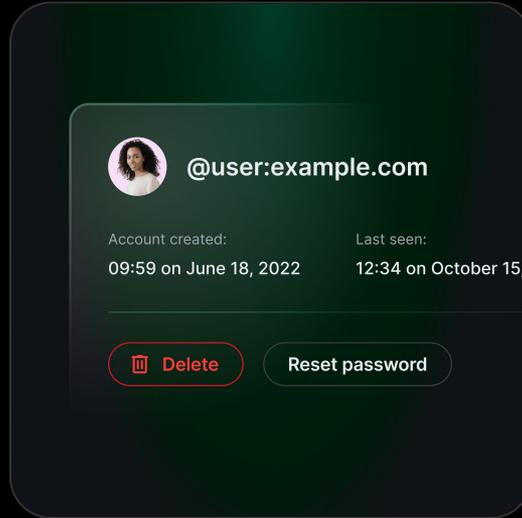
Optimised specifically
for German healthcare

ESS Pro is not just a Synapse Pro Wrapper



Admin

Powerful and easy Admin interface and Admin capabilities to manage chatrooms.



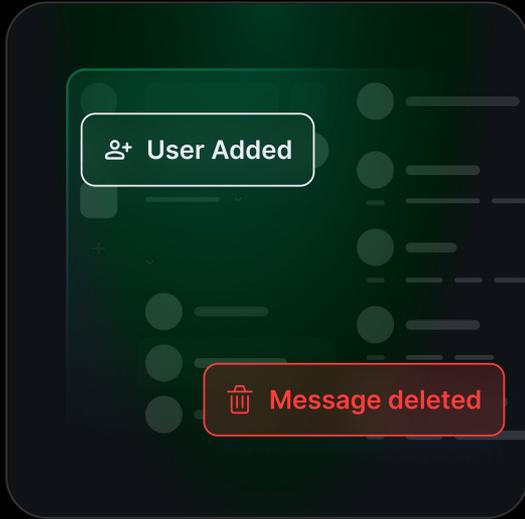
Identity and Access Management

Group access control and user lifecycle management via LDAP, AD, SCIM...



Auditing

Capture an official record of conversations for compliance (for FOIA, Public Record Keeping...)



Moderation

Optional oversight and management of your organisation's conversations.



Secure Border Gateways

Add an extra layer of security.



Synapse Pro

Government scale performance and scalability

Scaling to millions of users.

FOSS

Synapse.

The original Matrix homeserver for communities.

- Designed for non-professional deployments
- Manual scaling required
- Adjustments require restarts
- Resource inefficiencies

Written in Python.

Included in **Server Suite Pro**

Synapse Pro.

For availability, performance and efficiency

- Supports large (huge!) deployments
- Also supports multi-tenancy small hosts
- Elastic scaling for performance and HA
- Low operational cost
- Comes with guaranteed support!

Critical components written in Rust.

ESS Speed Run.

INTRODUCING



element

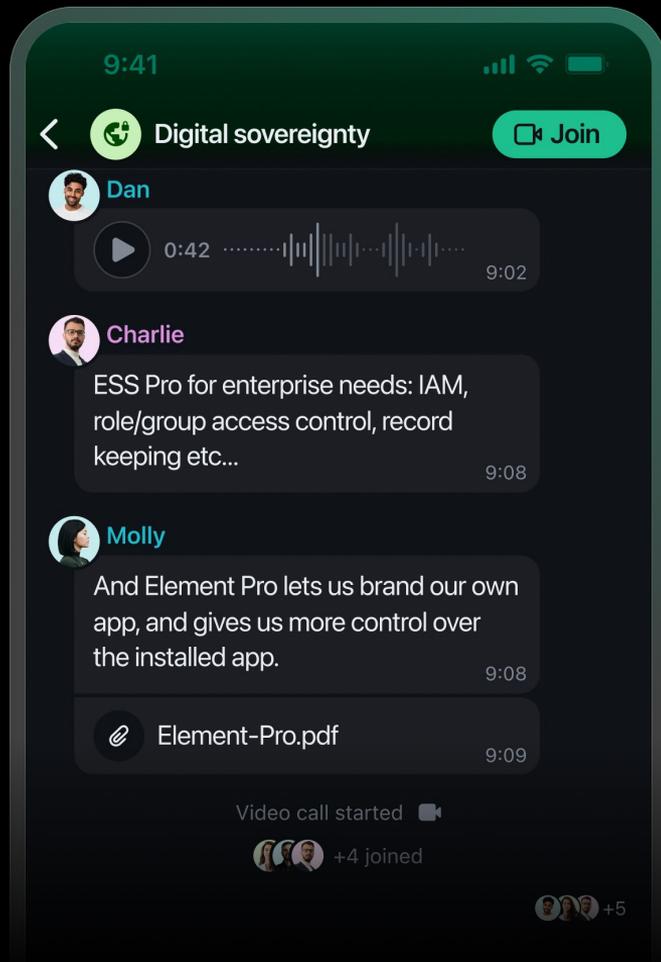
PRO



Element Pro

Built for the Workplace

- Based on Element X and Web with enterprise-empowering modules
- The apps are available today (customers do not have to switch later)
- Right at the beginning of the journey
- Example features
 - **Branded Apps** – stand alone or light customisation at run-time
 - **Optimized user on-boarding** experience via MDM
 - **Custom log servers** for compliance & air-gapped networks
 - **Content scanning** – available on web, near-term roadmap for mobile



The Element Clients.

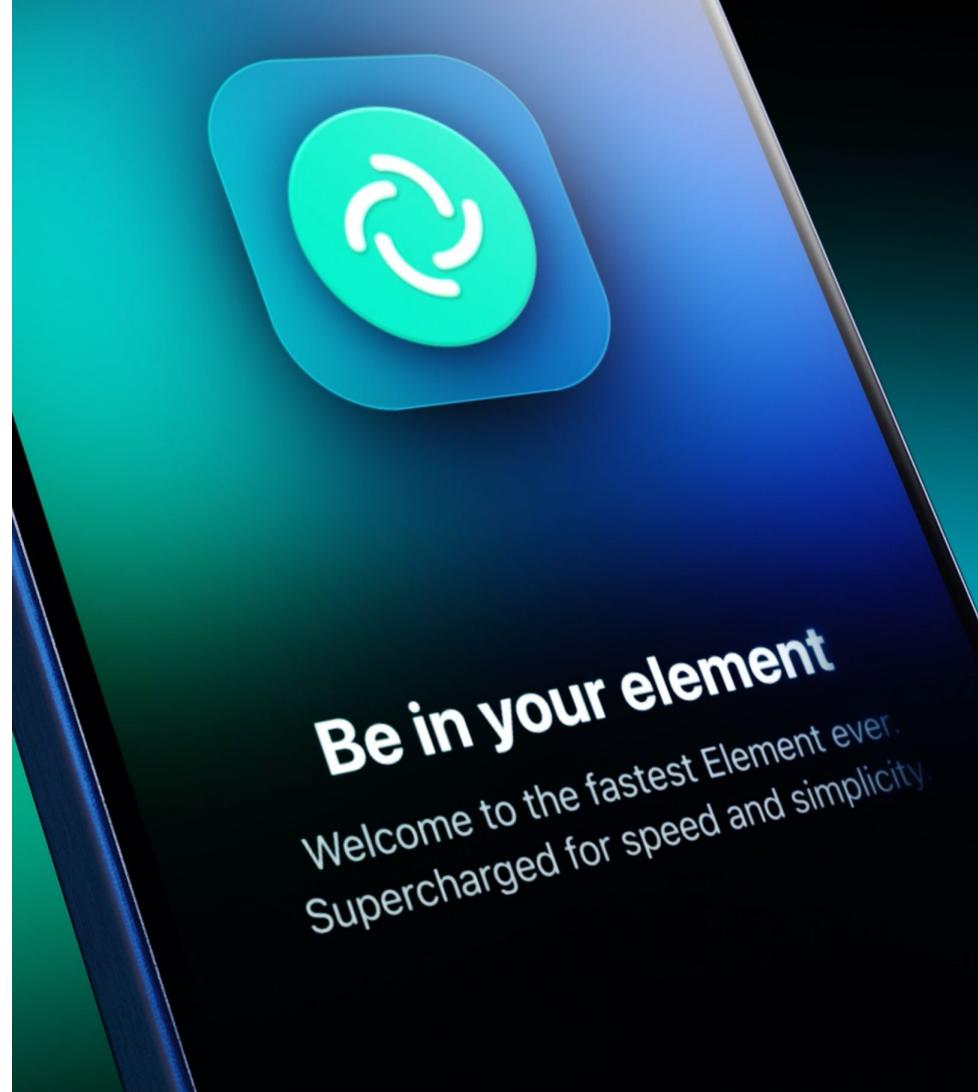
Element X

Now

- Threads
- Spaces

Next

- User Status
- User Directory
- Search



Element X Migration Plans

- Element has been renamed to Element Classic
- Element Classic sunset date is not set yet
- We will not abruptly end support for the classic app

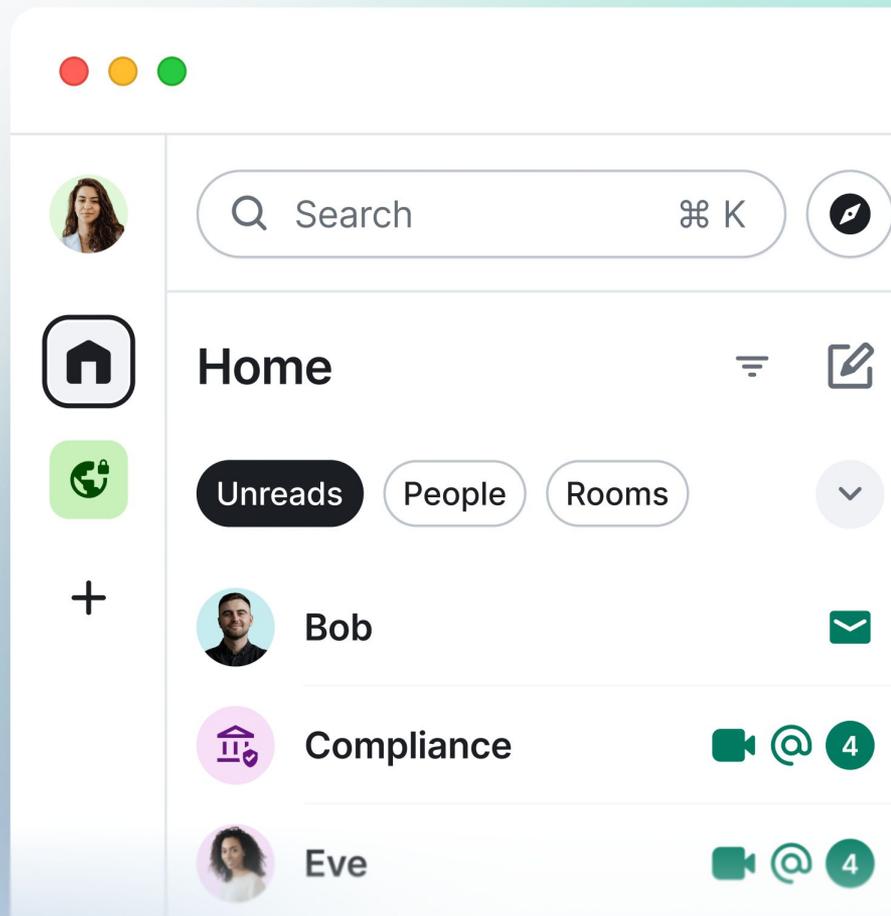
Element Web

Now

- Element X Philosophy
- Element Pro Web
- Room list and MVVM

Next

- User Status
- Spaces 2.0
- Threads 2.0 and Activity Centre



Accessibility

Now

- Enhanced screen reader support
- Improved keyboard navigation
- Error messaging & content improvements
- Contrast & visual tweaks

Next

- Alternative text for media on Web
- Fixing/removing keyboard traps
- Consistent focus & orientation
- Responsiveness across different screen sizes



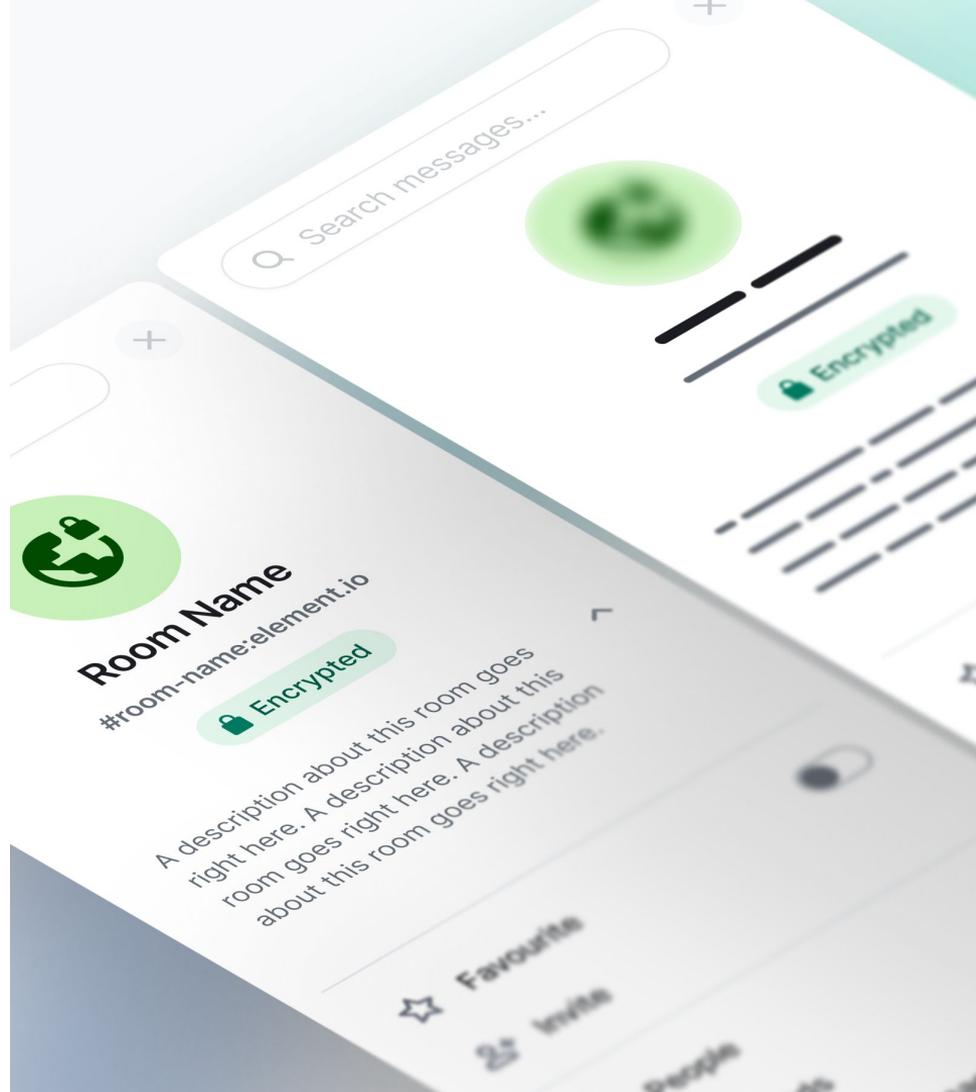
Cryptography

Now

- History key sharing
- Invisible crypto

Next

- Exclude unverified devices April 2026 (latest)
- Complete Dehydrated devices
- Post Quantum (PQXDH and SPQR)
- Encrypted metadata



Element Call

Now

- MatrixRTC spec compliance
- Element Call out of Beta.

Next

- Telephone user case
 - A pre-requisite for out of beta
- External guest access

M Meeting 🔒



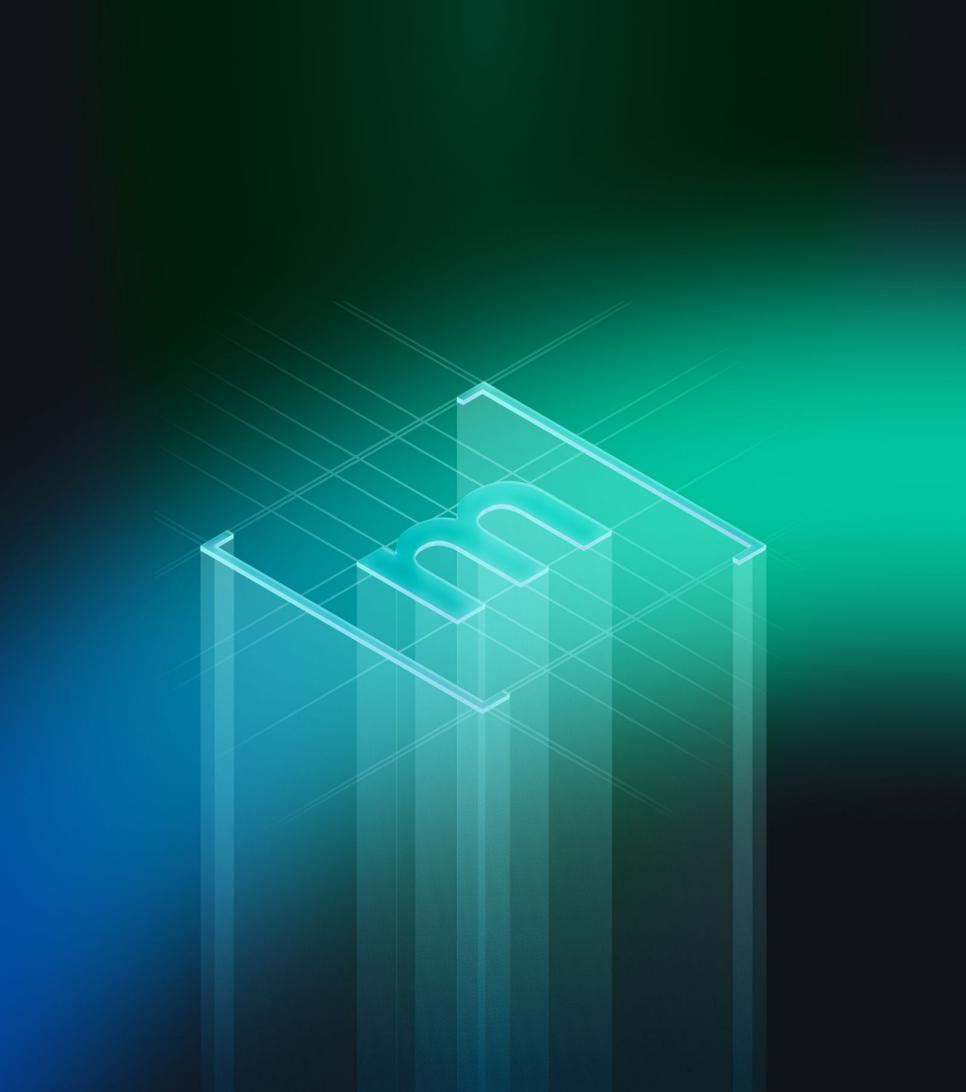
Protocol Research

Now

- Hydra phase 1 (State Resolution 2.1, creator power levels)

Next

- Hydra Phase 2
 - State DAGs
 - User IDs as account keys
- MLS
- P2P



Your input = better UX for everyone.

Share your thoughts, pain points, or ideas via the QR code



**Or drop by at the
Element booth**

Takeaways

Takeaways

- **ESS Pro** is established and the best option for serious Matrix installations.
- **Element Pro** is the new client for Web and Mobile based on the FOSS apps with enterprise specific features
- From **April 2026** (at the latest) Element Apps will no longer interact with unverified devices.

Anything else...