element

A backend for TI-Messenger.

A Matrix-based server that's ready for Gematik's TI-Messenger Fachdienst

Elevating communication
in healthcare across Germany

Ready for TI-Messenger

The TI-Messenger standard is improving productivity, privacy and patient outcomes across the German healthcare industry.

In 2021 Gematik selected Matrix as the foundation for its interoperable real-time communications standard.

The decentralised Matrix protocol provides the interoperability, digital sovereignty and default end-to-end encryption that will help to transform the way Germany's healthcare system operates.

TI-Messenger builds on Matrix with the addition of integrating secure authentication mechanisms with electronic health professional cards (eHBAs), electronic institution cards (SMC-B) and a central FHIR directory.

Element is led by the creators of Matrix

Matthew Hodgson and Amandine Le Pape, co-founders of Element and Matrix.

The challenge for ehealth providers

Germany's ehealth providers are in a race against time to build their secure communications solutions, reach Fachdienst status and bring their products to market. Element is working with Gematik as well as German hyperscalers, service providers and healthcare insurers to build solutions designed specifically for TI-Messenger Fachdienst solutions.

The TI-Messenger Element Server Suite accelerates go-to-market time and ensures a scalable, enterprise-grade backend. It supports easy-to-manage administration, advanced identity and access management, push gateways and auditing capabilities.
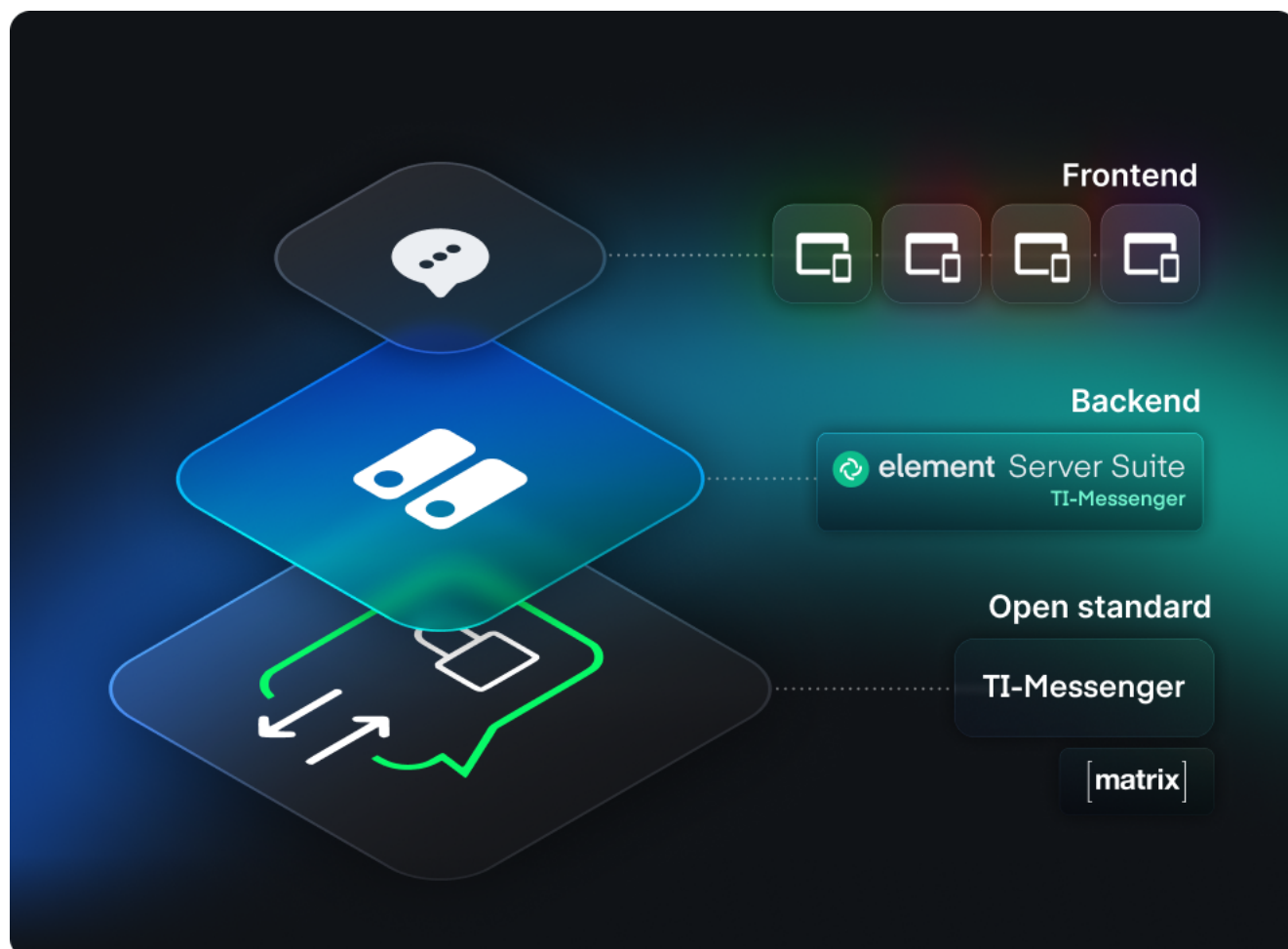
Dr Patrick Alberts
Managing Director, Element GmbH

"Our ingrained Matrix expertise enables us to empower hyperscalers and service providers with our fully supported backend infrastructure, through which our partners facilitate the seamless delivery of TI-Messenger compliant services."

adesso

STACKIT

gematik

TI-Messenger is decentralised

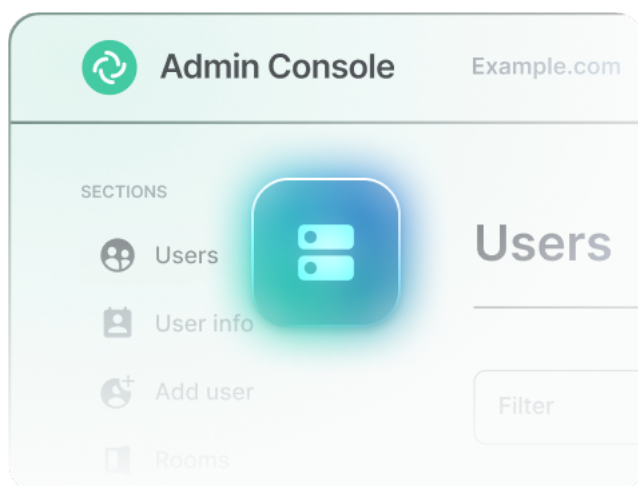A TI-Messenger deployment is controlled through the backend.

Frontend. Choose a TI-Messenger compliant frontend application or develop your own to serve your end users exact requirements.

Backend. Use our TI-Messenger Element Server Suite (TIM ESS), the most advanced way to manage a Matrix-based deployment.

Open standard. The TI-Messenger standard combines a number of healthcare standards such as FHIR with the Matrix protocol to create a digitally sovereign and interoperable real time communications solution.

Built for German healthcare

TIM ESS enables you to make the most of TI-Messenger with a series of enterprise-grade features and functions. Be up and running in hours.

Matrix homeserver
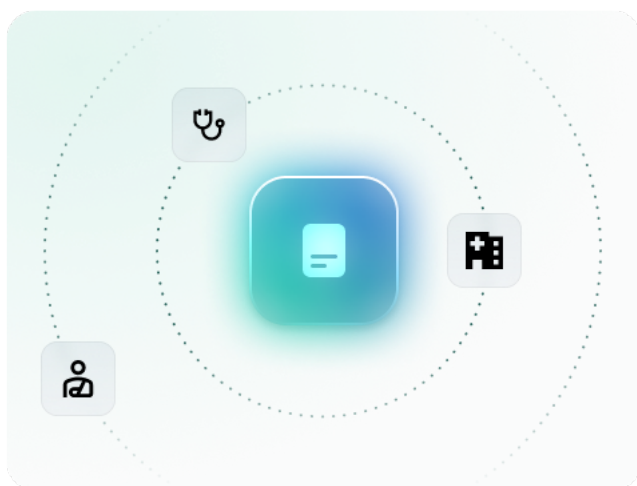The homeserver configured for TI-Messenger compliance

Push gateway
Forwards events to push notification providers

Federation listing
Interact securely with the FHIR directory service

TI-Messenger proxy
Inspect metadata and enforce rules-based criteria

These features are available under our proprietary licence, or through AGPLv3 and dual licences.

Support from the Matrix experts

We lead the development of the Matrix open standard, run the world's largest Matrix deployments, and have been working with Gematik on its TI-Messenger initiative since 2021.

Our team offers all the support you need.

Deployment
Assistance in deploying TIM ESS efficiently, including Helm Chart-based deployment

Maintenance
Ensure the latest updates to software components as well as LTS versions featuring stability enhancements and security patches

Support
Level 3 support for all functionality issues and bug fixes with response times based on priority.

Security testing
Active engagement with our security community including penetration tests and advanced security advisories

Product development
Collaborate on product roadmap prioritisation and development with options for direct sponsorship

Element is the leading provider of Matrix-based solutions

Element is led by the creators of Matrix.

Matthew Hodgson and Amandine Le Pape created the Matrix.org open source project in 2014, and are Guardians of The Matrix.org Foundation.

Gematik is a member of The Matrix.org Foundation, which guides Matrix development and ensures it remains a neutral open standard.

Element has developed more than 95% of the Matrix protocol, and continues to drive Matrix development through Element's open source implementations. The vast majority of the core Matrix team are employed by Element.

Element works with secure organisations across Germany

The leader in secure communications

IN FORRESTER'S OWN WORDS

Element is a great fit for "...organizations that prioritize flexibility, federation, and data sovereignty".

– Heidi Shey, Principal Analyst
The Forrester Wave™: Secure Communications, Q3 2022.

C O N T A C T

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Be in your element.

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