

Introduction to ESS Pro

[WORK IN PROGRESS]

Element Server Suite Pro (ESS Pro) is the commercial Matrix distribution from Element for professional use. It is based off ESS Community and includes additional features and services that are tailored to professional environments with more than 100 users up to massive scale in the millions.

ESS Pro is designed to support enterprise requirements in terms of advanced IAM, compliance, scalability, high availability and multi-tenancy. ESS Pro makes use of Synapse Pro to provide infrastructure cost savings with unmatched stability and user experience under high load. It uses Element's Secure Border Gateway (SBG) as an application layer firewall to manage federation and to ensure that deployments stay compliant at any time. ESS Pro includes L3 support, Long-term Support (LTS), Advanced Security Advisory and prepares customers for the Cyber Resilience Act (CRA).

This documentation provides all information for Element customers to get started as well as to work with ESS Pro.

Editions

There are three editions of **Element Server Suite**:

ESS Community

ESS Community is a cutting-edge Matrix distribution including all the latest features of the Matrix server Synapse and other components. It is freely available under the AGPLv3 license and tailored to small-/mid-scale, non-commercial community use cases. It's designed to easily and quickly set up a Matrix deployment. It comprises the basic components needed to get you running and is a great way to get started.

ESS Pro

ESS Pro is the commercial Matrix distribution from Element for professional use (see above) which is described in this documentation.

ESS TI-M

ESS TI-M is a special version of ESS Pro focused on the requirements of TI-Messenger Pro and ePA as specified by the German National Digital Health Agency Gematik. It complies with a specific Matrix version and does not make use of experimental features.

Deploying ESS Pro

ESS Pro comes as a Helm chart and can be deployed using any Kubernetes distribution. It requires an existing Kubernetes cluster and can be operated on the public internet as well as in airgapped scenarios.

A full step-by-step deployment guide for ESS Pro can be found [here](#).

Components

Next you find an overview of the components in ESS Pro including their purpose and additional information. Most of the components get deployed by default but some of them require additional configuration first. Any component can be enabled/disabled as desired.

- List of features available in ESS Pro
- List components and their features
- Our recommendations
- deployed by default or needs manual setup?
- documentation

Synapse Pro

Matrix-Authentication-Service (MAS)

Element Web

Element Call

Advanced Identity Management (AIM, formerly Group Sync)

Secure Border Gateway (SBG)

Signal (Push Gateway)

.well-known delegation

Architecture

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