

AI Cloud Fabrication Drawings service (Preview) - Security White paper

Disclaimer

This document summarizes relevant topics for customer data with AI Cloud Fabrication Drawings service. The content is subject to change without notice. By signing Customer Order and Software License Agreement (COSLA) the customer agrees that Tekla services and related products are subject to [Trimble terms](#). The content of this document does not revoke this agreement in any part.

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Scope

This document provides additional information on what is presented in the [Tekla Trust Center](#), focusing on AI Cloud Fabrication Drawings service. Tekla Structures and its usage is excluded.

Access to the AI Cloud Fabrication Drawings service is based on a valid product-specific subscription license. Access rights, identity, and licensing for the users are provided by Online profile service and Trimble Identity service.

AI Cloud Fabrication Drawings service offers Tekla Structures customers an alternative way to produce drawings within Tekla Structures. It helps produce higher-quality drawings and reduces the time the end user needs to edit them. The service creates drawings with correct font settings, dimensions, and mark placements based on Tekla drawings uploaded to a cloud collection created earlier.

Access to and rights within each drawing collection are controlled from the AI Cloud Fabrication Drawing service's Management Console. Access can be granted to an individual or to the whole organization owning the collection. It can also be given to the customer's internal or external users. Within a collection, a user can be assigned either editor or viewer roles.

Artificial Intelligence in AI Cloud Fabrication Drawings service

For the creation of drawings, Artificial Intelligence (AI) is used to select the “best matching” drawing library within the customer’s drawing collection, to give the best drawing result. The end result - a new drawing - can also be created manually via existing methods in Tekla Structures, thus no new objects or elements not previously existing in Tekla Structures are created by AI. This service is limited to the creation of new drawings, it does not affect previously created existing drawings.

AI is also used to assist the expert Tekla user in creating the drawing collection. In this workflow, users can opt to use AI to assist by automatically classifying different kinds of drawings in different libraries, e.g. column drawings into one library and beam drawings into another. There is an option to override the AI classification manually.

The data provided by customers is utilized solely to enhance the specific services they are subscribed to, ensuring that there is no sharing of information between different user groups (people having access to the specific collection). While AI models are employed to identify patterns and classify content within the customer’s data, they do not distribute data beyond this scope. Used AI does not provide solutions based on external data sources; it only

provides relevancy of data within the user's own dataset to be used further by the host software logic and functionality.

The AI in the AI Cloud Fabrication Drawings service is based on an engine developed by Trimble. Therefore, the AI engine cannot leak customer data to a third party.

Ownership of data

Customer drawings in Tekla Structures are owned by the customer according to Trimble terms. Anybody with editor rights in a collection can edit and delete the collection and drawings in the collection if they wish. Users that create collections immediately get assigned the editor role. Collections are owned not by users, but by organizations. The customer organization can ask all data of the collection to be removed from the service, or delete collections themselves.

AI Cloud Fabrication Drawings service does not handle complete customer models and drawings. The service saves only drawings in the Tekla-specific format, pictures of the drawings (for illustration purposes in the UI), and metadata of the drawings and their assemblies. The drawings are used as the source to generate drawings with the cloning feature of Tekla Structures. The pictures and metadata of the drawings are used to help users to organize data stored in the service.

AI Cloud Fabrication Drawings related services

AI Cloud Fabrication Drawings service uses the following ISO 27001-certified services:

The Tekla Online licensing system (ATC) contains the user profile created when first signing into Tekla Online services. In addition to the user profile information, the ATC contains the user's company (e.g., organization), online licenses and access rights, and authorization to use the Tekla Online services and online licensed products.

Trimble Identity service (TID, TIDv4) is an identity service provider for Trimble products, including Tekla products and services. It provides single sign-on and authentication to the services.

Tekla Online Admin Tool is used for designating the privileged users (admins) for each customer organization.

AI Cloud Fabrication Drawings Management Console web UI is utilized for managing access control to collections within the AI Cloud Fabrication Drawings environment. It enables customer company administrators and collection owners to share collections by inviting users or groups.

AI Cloud Fabrication Drawings service security

The AI Cloud Fabrication Drawings service follows the security measures and processes described in the [Tekla Trust Center](#). This chapter describes service-specific details.

Cloud security

The AI Cloud Fabrication Drawings service is operating on the Microsoft Azure platform. Key points for data security and high availability for service are:

- data encryption both in transit and at rest
- using Azure PaaS services with automatic patching
- role-based access control
- Azure Security Center
- 24x7 SOC Teams (Azure and Trimble) monitoring alerts

More information on Azure security can be found in [Azure Security white papers](#).

Files related to customer drawings, created by the AI Cloud Fabrication Drawings service in Microsoft Azure, are stored there until the customer fetches them to import them into their model.

Personal Data and Customer Data in AI Cloud Fabrication Drawings service

Personal data

The AI Cloud Fabrication Drawings service does not collect additional personal data as such. Trimble Identity login data is used to access the service. Tekla Online licensing data (first name, last name, email address) is needed for handling permissions to the drawings.

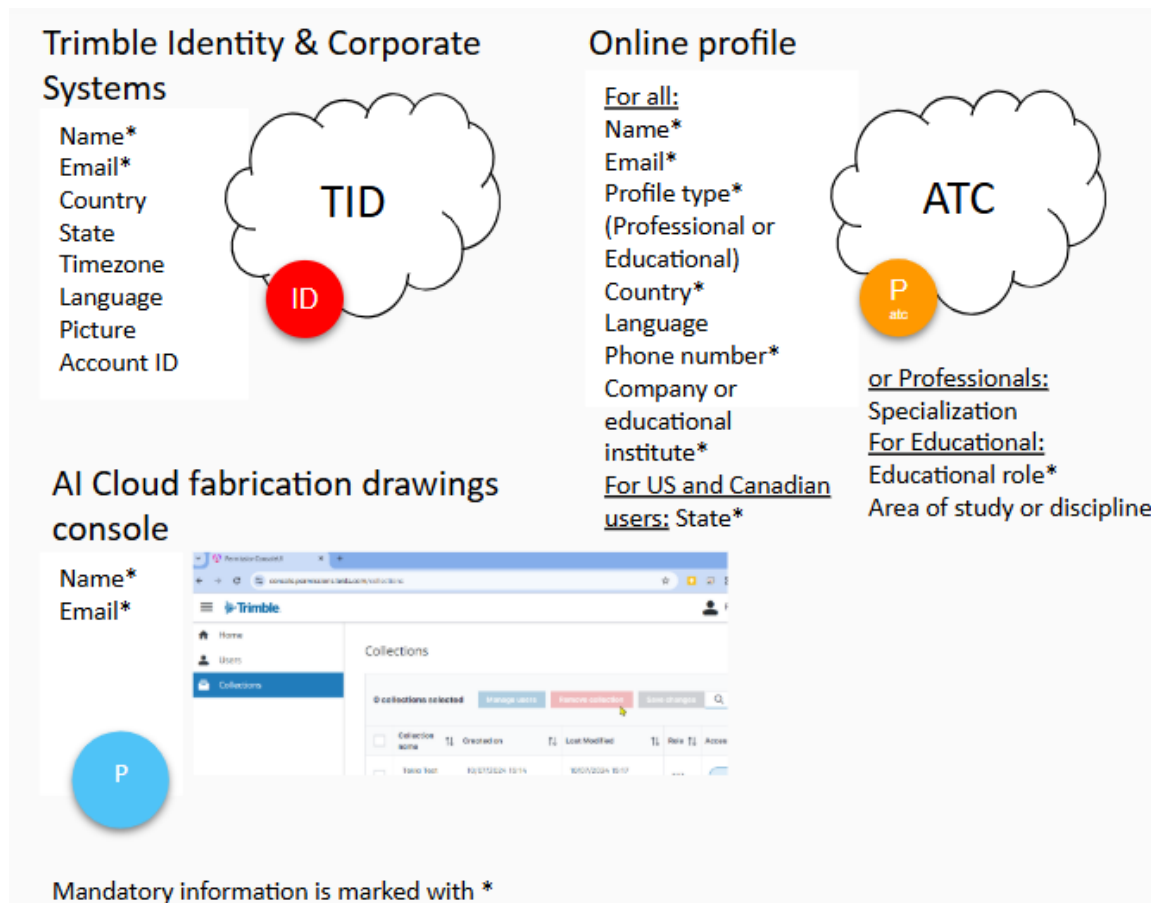


Image 1. Personal data in AI cloud Fabrication drawings service and related services

Personal data in the AI Cloud Fabrication Drawings Management Console is visible to the owner of the collection and Trimble support personnel.

We process and protect all personal data according to the descriptions in the Trimble [Privacy Notice](#).

Access to customer data

Access to customer data, drawings, and metadata in the AI Cloud Fabrication Drawings service is restricted to Trimble service administrators, moderators, and support personnel, in addition to the persons whom the customer has invited to the collection in question.

AI Cloud Fabrication Drawings service data center geographical location

AI Cloud Fabrication Drawings service uses the Microsoft Azure cloud infrastructure.

Online profile and Trimble Identity service use the Amazon Web Services (AWS) global cloud infrastructure.

The data center locations of the services are:

Service	Location	Service provider and region
AI Cloud Fabrication Drawings	Ireland	Azure North Europe
Tekla Online licensing and Profile system (ATC)	Ireland	AWS Europe (Ireland)
Tekla Online Admin Tool	Ireland	AWS Europe (Ireland)
Trimble Identity service	Selectable region US, EU, UK, or AU for non-federated users	AWS

Contact Information

If you have any questions or need more information, please do not hesitate to contact your local [Tekla support](#).