

Tekla Model Sharing - Security Whitepaper

Disclaimer

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Scope

This document provides additional information to what is presented in the [Tekla Trust Center](#).

The scope of the information is Tekla Model Sharing solution, including the sharing service. Tekla Structures usage as such is excluded. In case the on-premises Tekla Model Sharing server is

used, the customer is responsible for ensuring the security of the Tekla Model Sharing on-premises environment.

Tekla Model Sharing solution overview

Tekla Model Sharing solution is a service operating on Microsoft Azure platform. Customers create and modify structural models in Tekla Structures software. Several users can join in to collaborate in the same model by using Tekla Model Sharing, and it securely delivers the changes between the specified users over the internet.

License to use Tekla Model Sharing is granted to customer organizations. Organization administrators can enable/disable the use of Tekla Model Sharing for each of its employees or partners.

Access rights, identity, and licensing for the users are provided by Tekla Online profile service and Trimble Identity service.

Access rights for each shared model are handled inside Tekla Model Sharing.

Tekla Model Sharing related services

Tekla Model Sharing uses the following services:

Tekla Model Sharing service is the main service that handles model change packets and baselines for all clients.

[Tekla Online Status](#) page is a public web site showing the current status of Tekla Model Sharing service.

Tekla Model Sharing Management Console is a web application for company administrators to manage and control all models shared within their organization.

Tekla Account service (ATC) contains Tekla Online profiles which users create when they first sign in to Tekla Online services. In addition to the user profile information, Tekla Account service contains user's company (e.g. organization), online licenses and access rights, and authorization to the use of the Tekla Online services.

Trimble Identity service (TID, TID v4) is an identity service provider for Trimble products, including Tekla products and services. It provides single sign-in and authentication to the services.

Tekla Online Admin Tool is a service for organization administrators to manage and control their users and licenses of their organization.

Tekla Model Sharing security

The Tekla Model Sharing service is covered by the security measures and processes described in the [Tekla Trust Center](#). Service specific details are described in this chapter.

Cloud security

Tekla Model Sharing service is operating on Microsoft Azure platform. Key points for data security and high availability for Tekla Model Sharing 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](#).

Continuity and disaster recovery

Tekla Model Sharing Service Disaster Recovery is based on Microsoft Azure geo-replication storage: all data is continuously replicated to another data center for disaster recovery.

For more information, please see this document provided by Microsoft:
[Geo-redundant storage \(GRS\): Cross-regional replication for Azure Storage](#).

Customer Data in Tekla Model Sharing

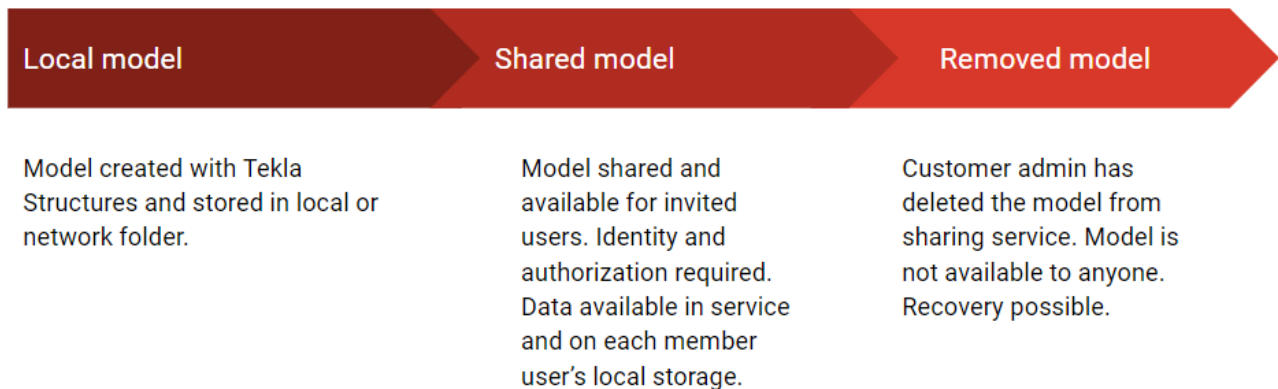
Customer data in Tekla Model Sharing can be divided into *structural model data* and *personal data*.

Structural model data

The customer organization owns all shared models created by their users. The owner has control over inviting users and setting their roles in a shared model. Only specified users can access the data.

Only authorized Trimble personnel have access to model data in the sharing service.

Model changes and baselines are transferred encrypted and stored with the highest security protocols. The stored model data is encrypted. We recommend using supported versions (two latest Tekla Structures main releases).



Personal data

The Tekla Online profile and Tekla Model Sharing contain personal data of users.

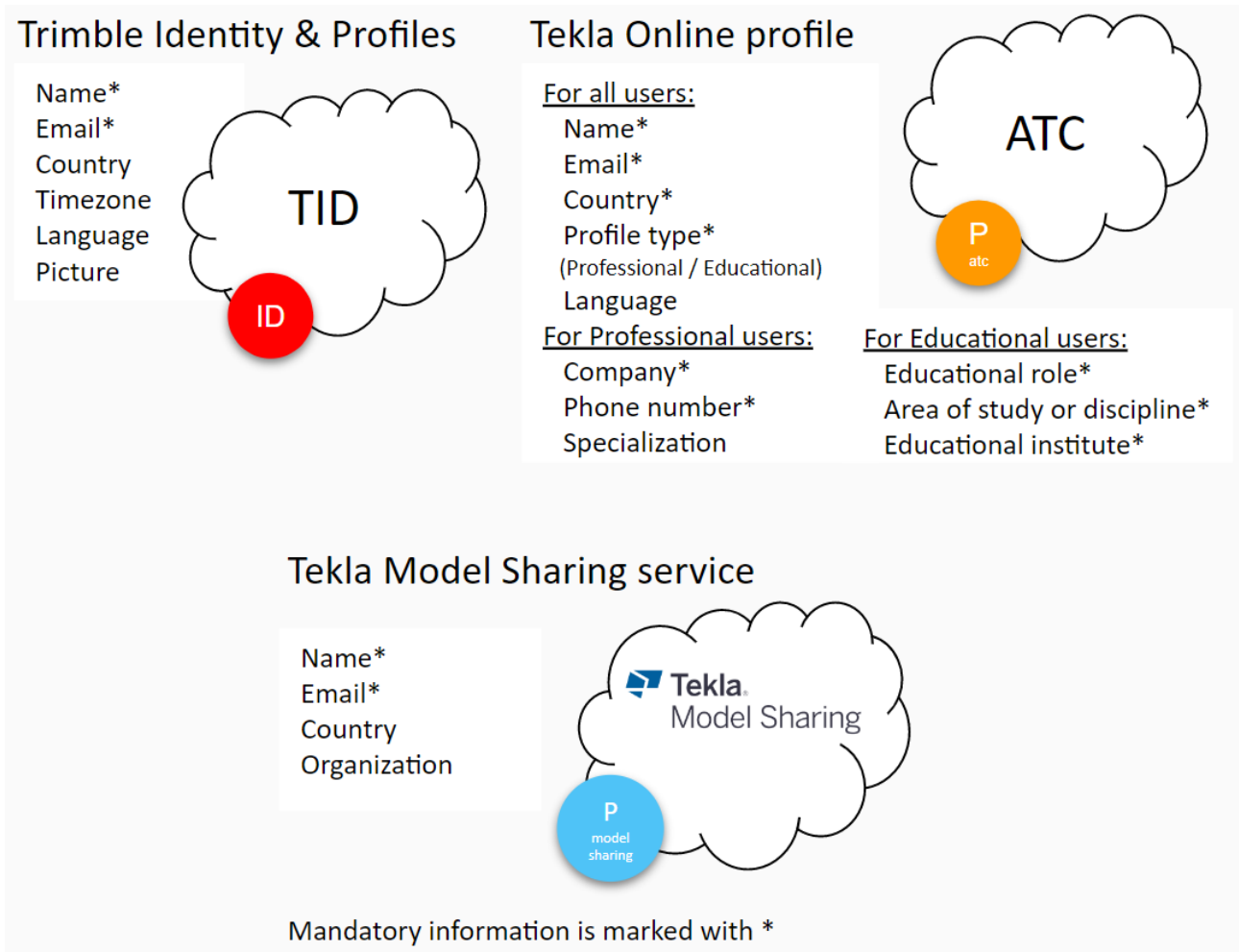


Image 1. Personal data in Tekla Model Sharing

Upon creating a new Tekla Online profile, the user provides mandatory personal data (such as name and email) and agrees to the [Terms of Services](#).

When signing in to Tekla Model Sharing, the Tekla Online profile data (*Name, Email address*), user's organization and user's access rights are synchronized to the service profile.

Access to personal data

Access to personal information in Tekla Model Sharing is restricted to authorized personnel in Trimble Solutions and related resellers only.

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

Tekla Model Sharing data center geographical location

Tekla Model Sharing uses the Microsoft Azure cloud infrastructure, which is generally available in [60+ regions in 140 countries](#).

Tekla Model Sharing service is deployed in Azure North Europe region (Ireland) and uses Azure West Europe (Netherlands) as the backup data center.



Tekla Online profile and Trimble Identity service use the Amazon Web Services (AWS) global cloud infrastructure, which is available within 26 geographic regions around the world.



The AWS infrastructure is designed to deliver a flexible, reliable, scalable, and secure cloud computing environment with a high quality global network performance.

Data center locations of the services are:

Service	Location	Service provider and region
Tekla Model Sharing service	Ireland	Azure North Europe
Tekla Model Sharing service (backup)	Netherlands	Azure West Europe
Tekla Online profile	Ireland	AWS Europe (Ireland)
Tekla Online Admin Tool	Ireland	AWS Europe (Ireland)
Trimble Identity service	US	AWS US (Oregon)

Contact Information

If you have any questions or need more information, please don't hesitate to contact your local [Tekla support](#) for additional information.