



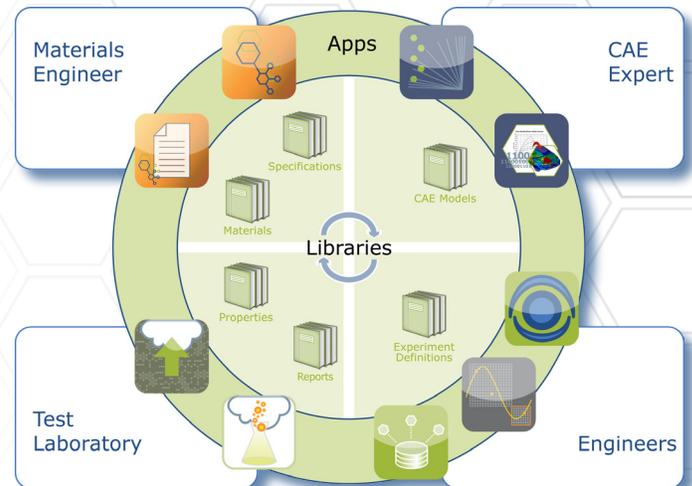
matereality  
Workgroup Material DatabasePro



Collaborate Securely

# Workgroup Material DatabasePro

Materality offers the building tools and engineer-focused software to allow workgroups to collect, share, and use any material data in full interactive detail. The Workgroup Material Database is hosted on the Materality Cloud. Consolidate and maintain your team's data. No matter who in the group is on vacation, data is always digitally available precisely when you need it. All workgroup users can apply powerful software apps for advanced plotting of simple and complex data accompanied by analytics to visualize data trends instantly. Convert units, zoom, interrogate curves, compare different datasets and materials, share, or export data to Excel or CAE, all with the click of a button. Since Materality databases are fully scalable, your workgroup can never outgrow its database! All databases offer full access control: keep your data private, or share it selectively with your collaborators.



## Your Workgroup Materials Information

Maintain a master database for your material data. Each workgroup member receives and controls a Personal Database for working with data. Discrete, interconnected libraries hold different kinds of materials information: properties data, CAE material cards, test reports, and more. There are truly no limits!

### Access Control

It's your data - you control it. Make data Public, Private, Hidden, or accessible only to your workgroup. Grant or remove access to individual users or workgroups.



### Collaboration

Share richly detailed data with colleagues by e-mail link, or embed the Viewer into your internal documents and web media.



### Traceability

Each dataset is supported by a Data Certificate which provides complete traceability. Information includes test techniques and parameters, sample and specimen details, date, and accreditation.



### Governance

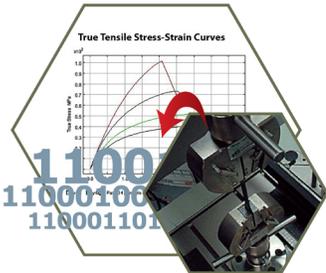
As Workgroup Administrator, see a bird's-eye view of the entire group's data. Change access, add or remove members without losing data, and act for users. Control and track usage, and set data presentation, units, and search preferences.



# Software

Your database forms a centralized core, connected to a suite of software to help workgroup members to understand and use their material data in a consistent way. All software is browser based, requiring no download to client computers. All common browsers are supported.

## Loader



The **Loader** allows users to populate their own material database. Data can be loaded, copied from other databases, or imported from a variety of file formats, including CAE material model files.

- Easy upload of both simple and complex material data
- Copy feature downloads an editable copy of any material data on Matereality for modification
- Optional DataPipes Import feature reads material data from test instruments into your database
- Fit data to equations

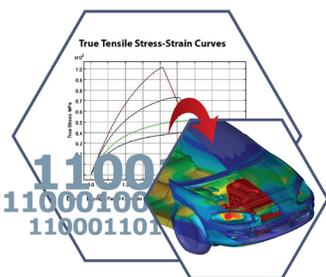
## Viewer



The **Viewer** is used to view and analyze material data of any complexity.

- Trends and dependencies become apparent
- One-click export to Excel
- Automated unit conversion
- Detailed data inspection and curve interrogation, including zoom
- Data Certificates are provided to ascertain reliability of data
- Collaboration and sharing tools
- Embed views inside internal documents, web sites, presentations
- Access control and transfer of data between team members

## Modeler



The **Modeler** transforms raw material data into CAE-ready input material cards.

- Simple elastic, elastic-plastic, to rate-dependent, viscoelastic, hyperelastic material models for FEA, plus injection-molding simulation parameters
- Includes data mining robots to identify the correct data needed for a material model
- A graphical user interface allows editing and fine-tuning of the material model parameters
- Integrated inside Abaqus/CAE, ANSYS Workbench, Moldex3D, SIMPOE, and SolidWorks



## Analyzer



The **Analyzer** provides analytical tools to compare and contrast materials.

- View historical trends
- Automated cross-plotting of comparable curve data
- Statistical error banding to assess the variability of curve data

# Matereality Software

Matereality Material Data Management (MDM) software is available for individual or group access. Systems can be configured for site-wide or enterprise-wide use. All databases offer full access control — keep your data private, or showcase it to the world.

## ◆ Personal DatabasePro

Build your own database! Perfect for a single user, a Matereality Personal Database lets you store all your material data in one highly manageable, secure place. Data loading and editing is straightforward and accurate. Easily export raw data to Excel or models to CAE.

## ◆ Workgroup DatabasePro

A Workgroup Database allows a group of users to access the same pool of data from any location and for unique purposes. Workgroup databases allow for rich collaboration and “I see it the way you see it” views of data and CAE models. The administrator can consolidate members’ individual data, track usage, and create various access settings.

## ◆ Material Supplier Database

Offer your material data to your clients in full interactive detail. The Material Supplier Database is a fully scalable solution to store and showcase detailed data on all of your materials, no matter how complex — you can never outgrow your database. You and your clients can apply powerful software for advanced plotting of simple and complex data accompanied by analytics to instantly visualize data trends. Convert units, zoom, interrogate curves, share, or export data to Excel or CAE, all with the click of a button. Maintain full access control on each piece of data — keep it private, or share it selectively with your customers, prospects, and collaborators.

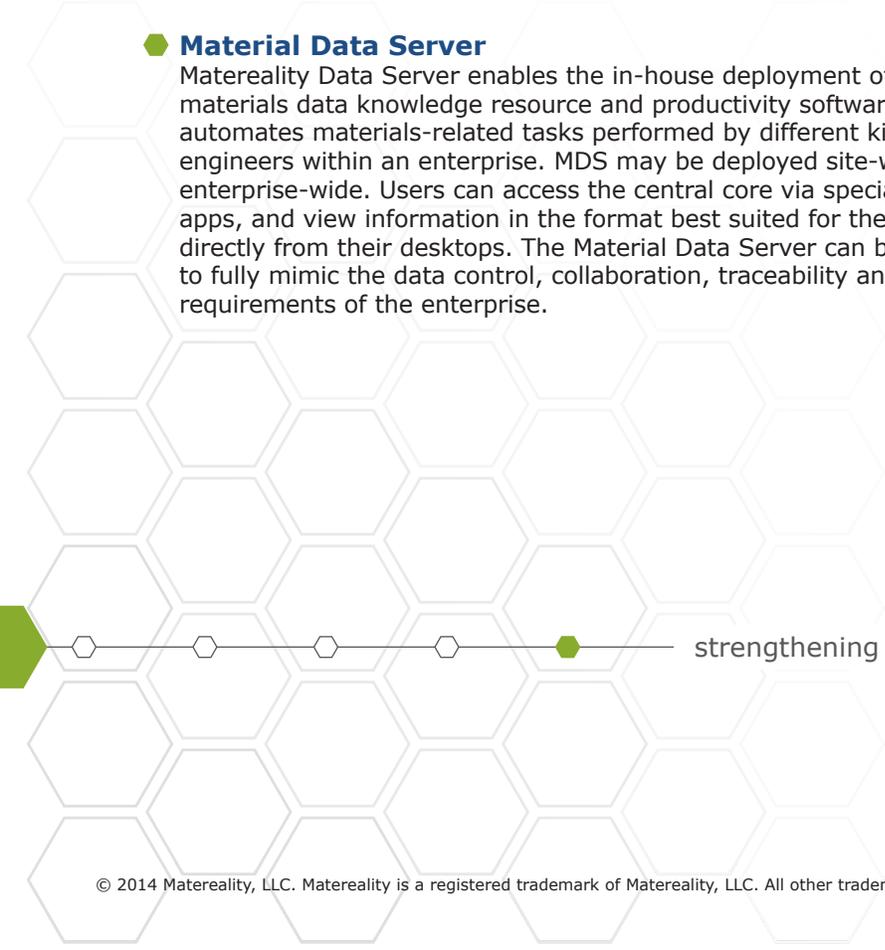
## ◆ Material Data Server

Matereality Data Server enables the in-house deployment of a centralized materials data knowledge resource and productivity software that automates materials-related tasks performed by different kinds of engineers within an enterprise. MDS may be deployed site-wide, or enterprise-wide. Users can access the central core via specially tailored apps, and view information in the format best suited for their need, directly from their desktops. The Material Data Server can be customized to fully mimic the data control, collaboration, traceability and governance requirements of the enterprise.



***“Product innovation success relies on centralized data and knowledge resources.”***

*— Hubert Lobo,  
President and CTO*



strengthening the materials core of manufacturing enterprises



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