

# tenfold

NEXT GENERATION PERMISSIONS MANAGEMENT



**tenfold**  
Essentials Edition

Easily manage Active Directory®  
and file servers

**tenfold**  
Essentials Plus Edition

Advanced functions for Microsoft  
SharePoint® und Exchange®

**tenfold**  
Enterprise Edition

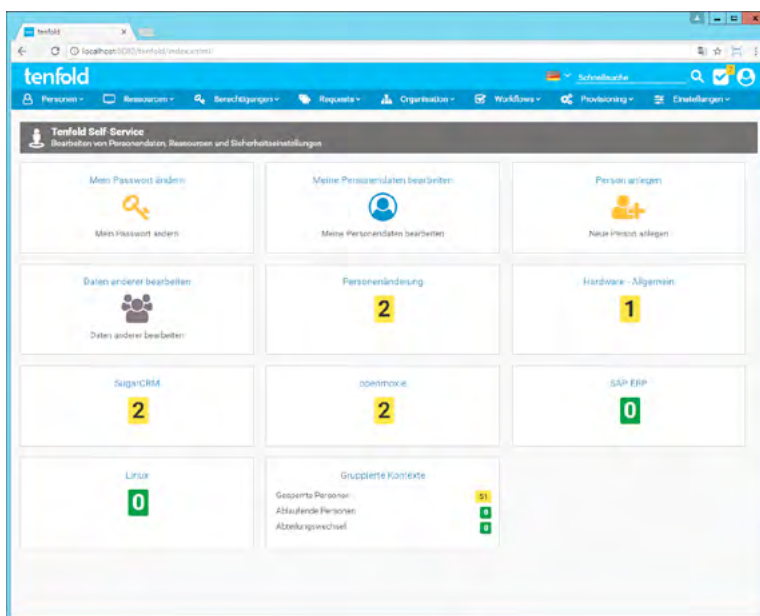
Advanced functions for  
application permissions

# IMPROVE YOUR IT SECURITY

MODERN  
LOOK & FEEL

## What is tenfold?

tenfold is the next generation of permissions management. Formerly confusing and unsafe authorization structures have become history thanks to our revolutionary and simple approaches and tools. tenfold allows you to automatically create user accounts and helps to visualize permissions. It incorporates data controllers from different fields into the workflow process, step by step.



tenfold dashboard - extremely user-friendly design

## Procedures

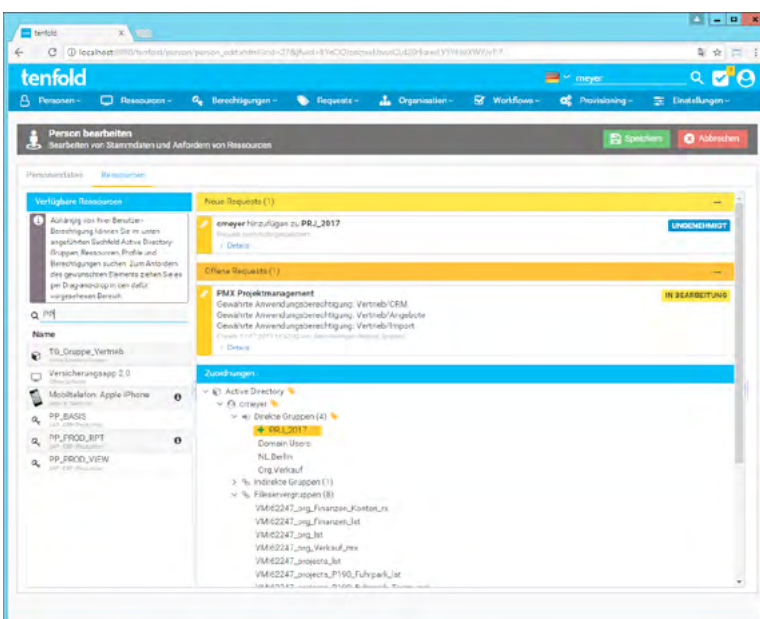
A system intended to help you efficiently manage users and permissions – and keeping an overview thereof – must be able to support all procedures. tenfold visualizes and documents the entire life cycle of a user's account – from the first to last day at the company, including any department changes or temporary project work.

## Systems

The ability to integrate any important systems is key to an easier management structure. tenfold supports numerous widely-used systems and applications, such as Microsoft® and SAP®. It comes equipped with open and transparent interfaces to allow for an easy integration of other systems.

## Simple

tenfold's intuitively designed user interface allows all important members of the company to be included in the workflow process: end users, data owners, IT staff and human resources. tenfold will suffice both in internal and external IT audits.



tenfold expert functions - for IT admins

## AUTOMATE STANDARD OPERATIONS

# Smart Identity Management

tenfold offers a smart software addition to your identity and access management strategy. tenfold combines the quick and easy aspects of a permissions management solution with the flexibility and adaptability of an identity and access managements solution.

## Automation

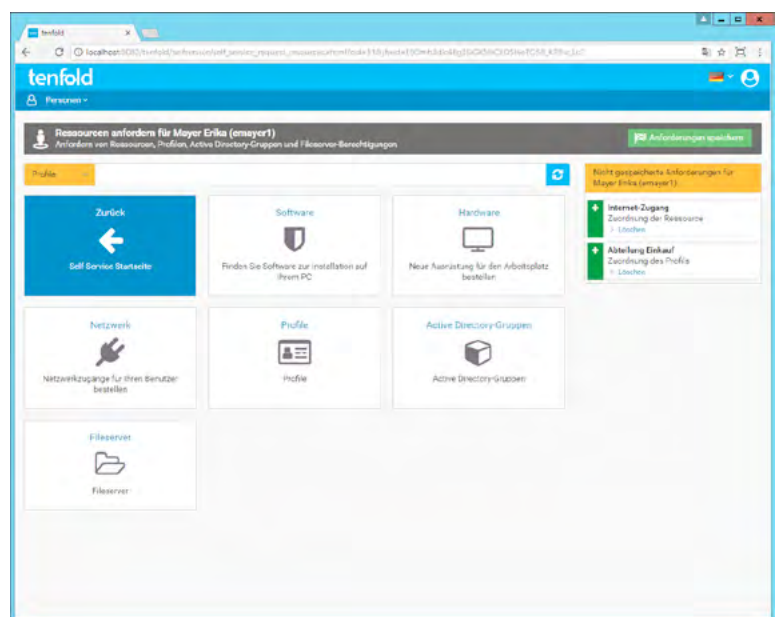
tenfold's high level of automation is achieved through profiles, workflows and self-service options and is tremendously time and cost efficient. Its easy-to-use interface allows users to submit applications for additional permissions, equipment or data changes. It lets you collapse user permissions into profiles that incorporate all systems and allow tenfold to automatically customize employee roles and permissions, based on their department or job position.

## Transparency

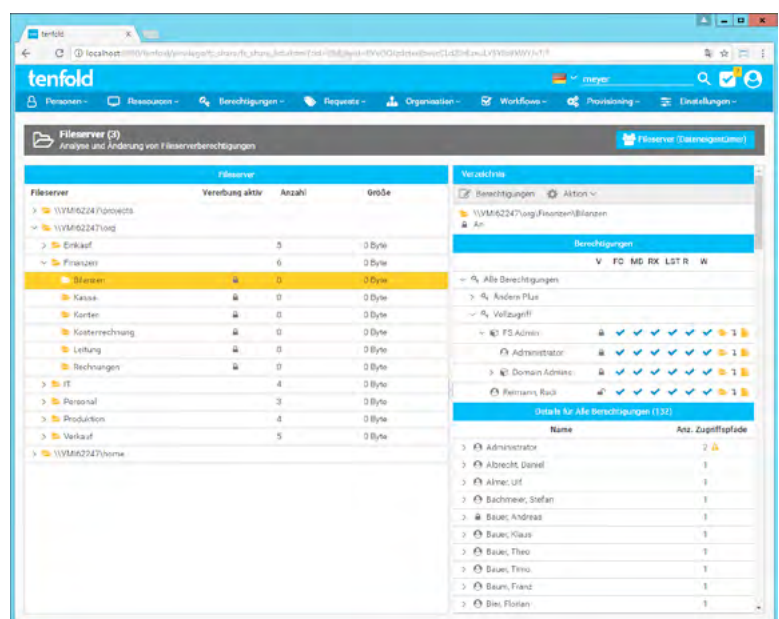
Documenting changes to permissions is mandatory for most companies and managers. So, why run an extra lap, when you can just let tenfold document and audit-proof all processes automatically? The information is right there, at any time.

## Get a head-start through innovation

It has never been so easy to control the processes involved throughout an IT user's life span and simultaneously know who has which permissions within the company.



### Intuitive self-service for staff members



File server permissions are clearly visualized



# AUDITING, REPORTING, DOCUMENTATION

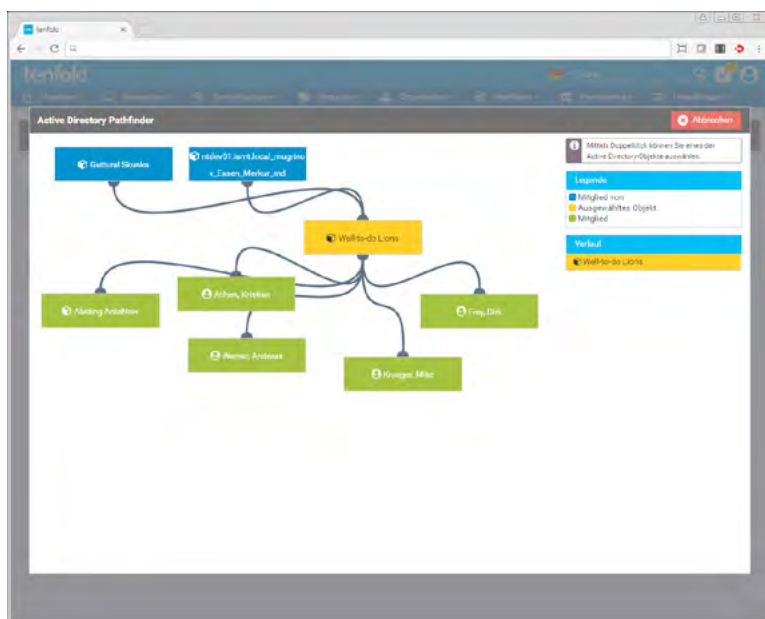
Ready for EU-GDPR?  
Properly set access  
permissions are the key!

## Excellent Evaluation Features

tenfold illustrates who has been given access to important or critical data and by whom. The system offers audit-proof documentation of any changes. tenfold records the history of all users and permissions and makes it impossible to manipulate the data.

	08. September	09. September	10. September	11. September	12. September	13. September	14. September
Active Directory (Objekte)	3	0	3	4	4	3	3
Active Directory (Gruppenmitgliedschaften)	2	0	2	2	2	2	2
neu	2	0	2	2	2	2	2
Ablaufdatum geändert	0	0	0	0	0	0	0
Gelöscht	0	0	0	0	0	0	0
Verzeichnis	1	0	1	1	1	1	1
Verzeichnisberechtigungen	1	0	1	1	1	1	1
neu (direkt)	1	0	1	1	1	1	1
neu (via Fileservergruppe)	1	0	1	1	1	1	1
Ablaufdatum geändert	1	0	1	1	1	1	1
Gelöscht (direkt)	1	0	1	1	1	1	1
Gelöscht (via Fileservergruppe)	1	0	1	1	1	1	1

tenfold auditor - control changes, sorted according interface AD, file servers and other systems



Active Directory pathfinder - visual representation of group nesting in AD

### tenfold Auditor

The auditor (with drill-down capability) clearly depicts what object changes were made and on what day they were made. It also recognizes changes that were not made via tenfold. The Essentials Edition only monitors objects within the Active Directory and file servers. The Essentials Plus Edition additionally monitors objects within Exchange and SharePoint; on top of this, the Enterprise Edition shows changes to application permissions.

### Path Finder for Active Directory

The path finder provides a graphical representation of nested groups in the Active Directory. This helps to maintain a better overview and provides for a higher level of security because false assignments can be better recognized.

### Administrator-Dashboard

The Active Directory is often in an untidy state due to grown structures and circumstances. The administrator dashboard can provide an overview of the problems: unused accounts, abandoned SIDs, empty groups, etc.

## MAKE YOUR PROCESSES COMPREHENSIBLE

### Our modern approach to visualizing authorization processes

We want to make processes visible and tangible. Our unique methods and representations help to comprehensibly visualize authorization processes. Any potential for optimization becomes visible and can immediately be tackled.

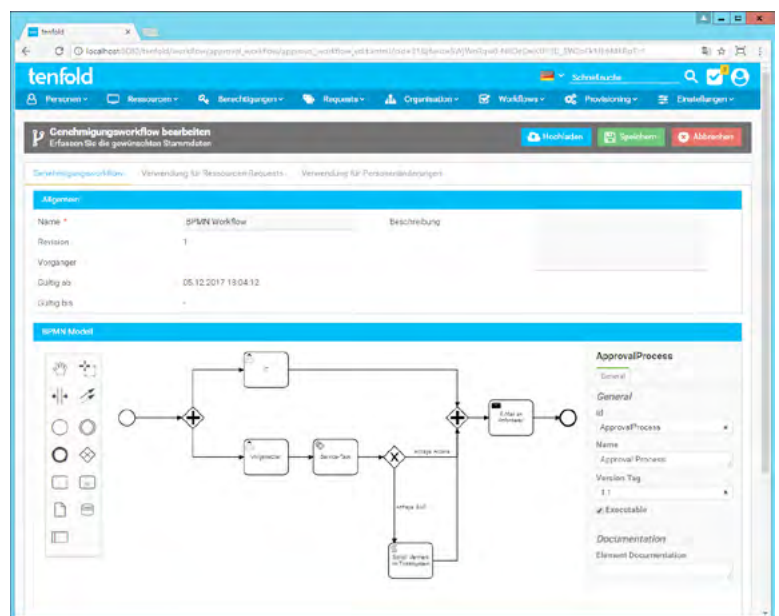
#### Authorization workflows

Flexible workflows ensure that changes can never be made without the permission of a persons in charge. A graphic editor is available for all workflows in accordance with BPMN (Business Process Model and Notation) standards. This provides for the following advantages

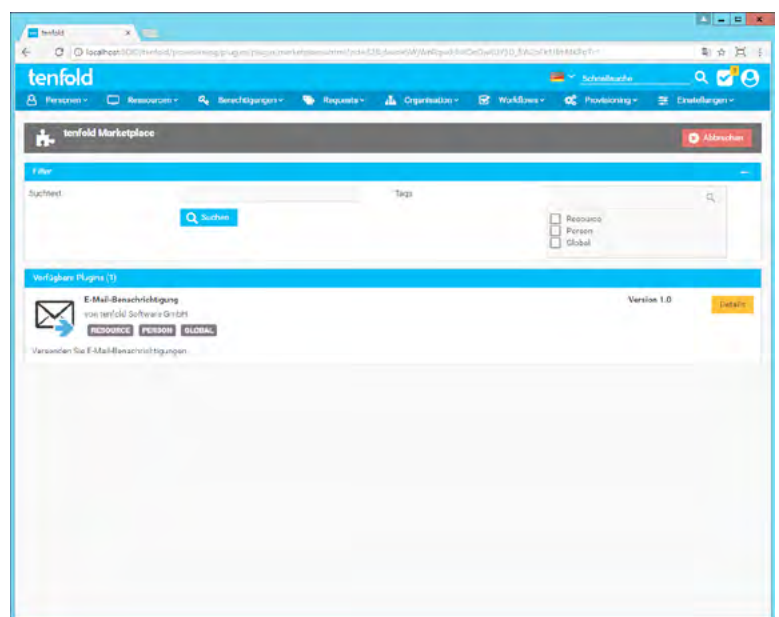
- No scripting knowledge necessary for generating complex workflows
- Request status is graphically illustrated
- Graphic representation of workflows serves as documentation and proof at the same time
- IT audits are simplified further thanks to their distinct representation

#### tenfold plugins

A revolutionary way of providing out-of-the-box interfaces. New tenfold plugins can be downloaded directly via the software and are later installed and configured over the web interface. In 90% of cases introducing standard software is possible without any former scripting knowledge. Individual client customizations are made via clearly defined exits.



tenfold Workflow Editor - graphical visualization and editing of workflows made possible



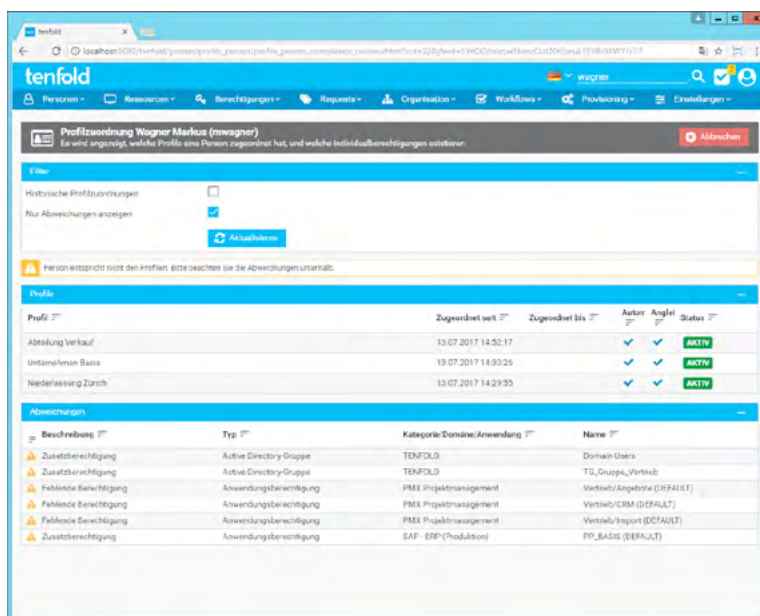
tenfold plugins for simpler configurations

# AVOID WEAKNESSES

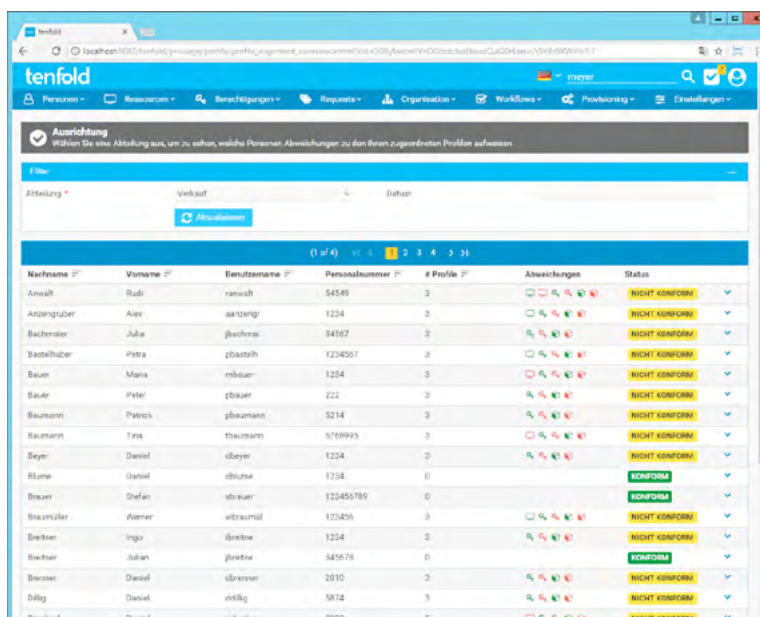
Our tip:  
join webinar to view  
live tenfold  
demonstration  
[www.tenfold-security.com/en/  
premium-webinare](http://www.tenfold-security.com/en/premium-webinare)

## Copying reference users is risky

To the detriment of IT security, copying and pasting so called “reference users”, when managing users and permissions, has become common practice. tenfold’s profile functions provide a unique and safe alternative that helps to evade permissions-chaos due to imprudent duplications of reference users.



Instantly recognize profile discrepancies



Profile discrepancies from different departments are made visible

## tenfold profile functions

Profiles represent different organizational units and their permissions. The administrator can configure profiles via tenfold’s user interface. By linking profiles to individual staff members, they automatically receive all basic permissions required for their respective departments, cost centers, job positions or locations.

Additional permissions can be requested through the tenfold interface and the necessary approvals are automatically requested from data owners in the process. If a staff member switches to a different unit within the company, their basic permissions are automatically transferred. It is also possible to set a time-delay for the transfer. If a profile is adjusted, the changes can automatically be rolled out to all staff members who are linked to the profile.

The Enterprise Edition allows basic permissions to be assigned across different systems. Roles in SAP, for example, can automatically be assigned, depending on which organization they belong to.

## THAT CERTAIN SOMETHING

### Powerful and simple functions

tenfold offers some very useful functions, like password-reset. Forgotten passwords make up to 50% of all helpdesk inquiries. You can now put that lost time to better use.

#### Permissions analysis

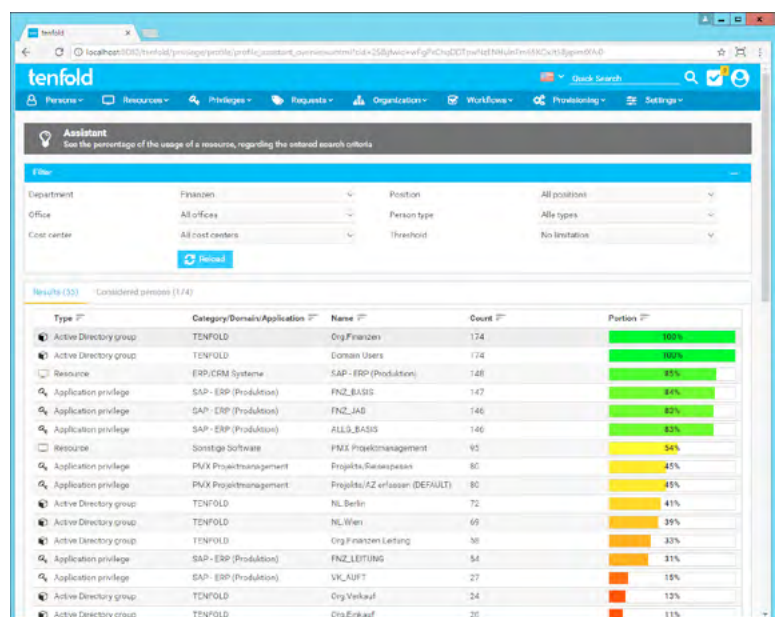
Use statistical analyses to evaluate your permissions and thereby recognize patterns and commonalities in your permissions structures.

Permissions analysis is also a powerful tool for generating suitable profiles in a fast and simple manner.

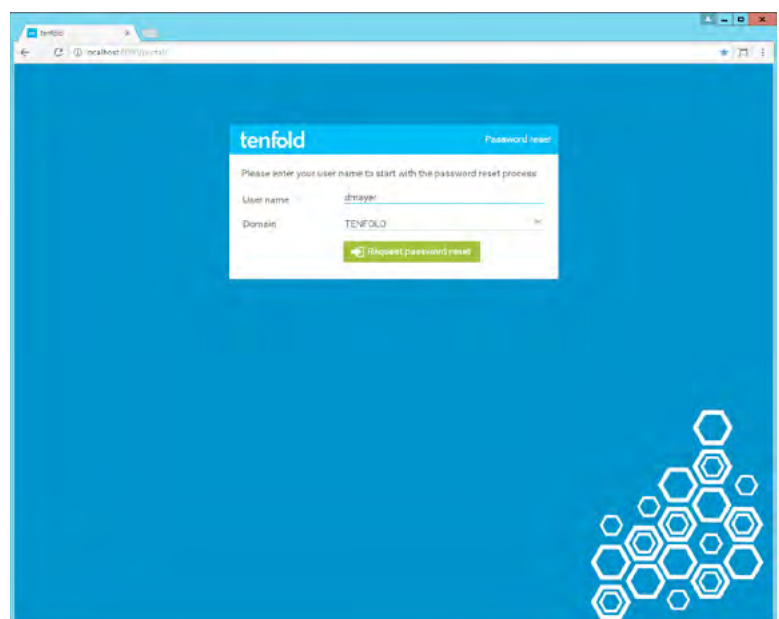
#### Password reset

Ask any helpdesk member: resetting passwords devours both time and capacities.

tenfold allows users to reset their own passwords in the Active Directory®, SAP® or in other applications. Furthermore, it supports secret questions, SMS PINs, e-mail PINs and Google® Authenticator. If you can't (or prefer not to) make the option available to your users, tenfold offers helpdesk the option of validating persons for the reset function through caller verification. Automatically generated initial passwords also help to save valuable time. A specifically designed portal allows users to reset their passwords from a desktop PC or from their mobile devices in only two easy steps.



Permissions analysis



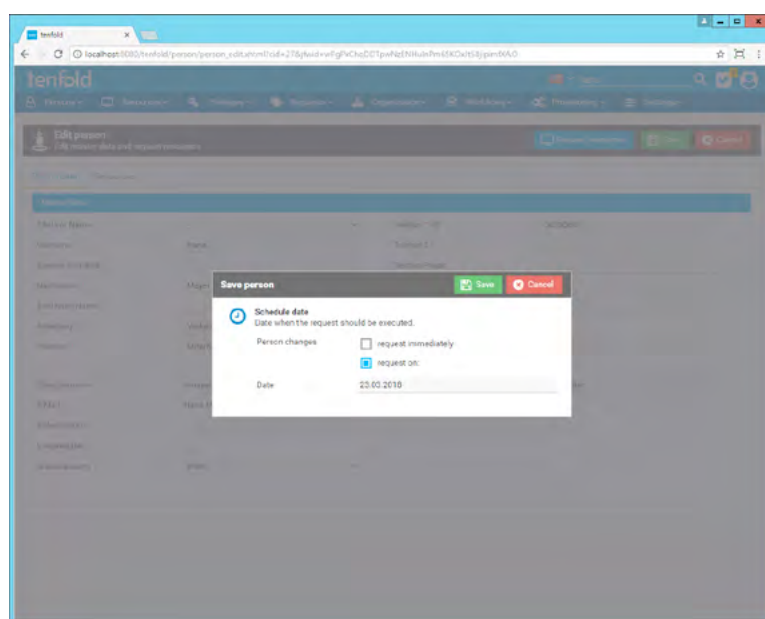
Time-saving password reset function



# DYNAMIC FUNCTIONS AND TIME

## Time-related functions – no stress involved

The time factor often plays an important role in permissions management. Sometimes, we do not want changes to become effective immediately, but instead for them to be automatically activated at a later point in time. Most commonly, we only want them to be temporarily active at all – until a certain date, for example - and later to be automatically deleted. This increases the level of IT security.



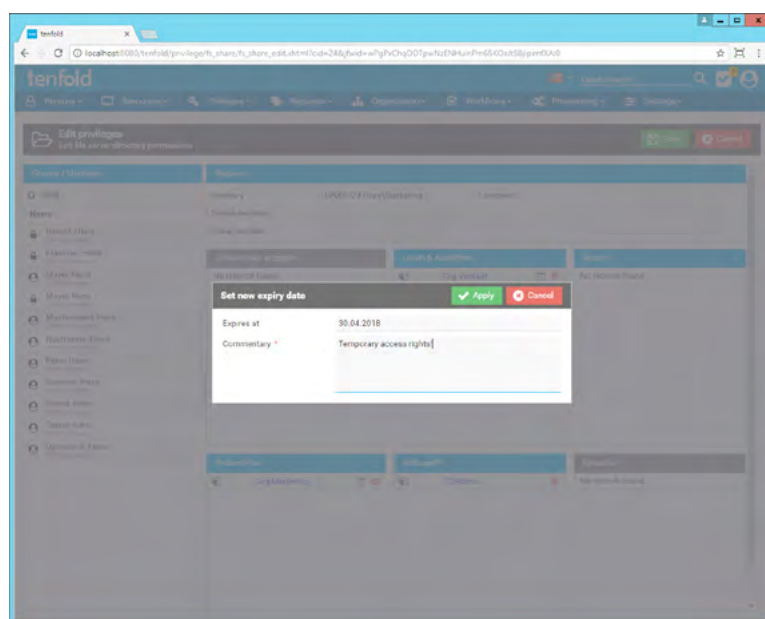
Plan requests easily

### Planned requests

You want changes to user data or permissions to be implemented later? No problem: enter the changes in tenfold and set an activation date. The changes are saved in form of a planned request in the system and will be activated on the desired date.

### Temporary permissions

tenfold allows you to assign permissions for all resources temporarily, thereby saving you the hassle of having to manually set reminders. It then deletes the relevant permissions on the set date and informs users by e-mail automatically.



Temporary permissions - just in case

### Mass changes

Sometimes, several user data need to be created or altered at once. Simply make the data changes in Microsoft Excel® and apply the mass changes by uploading the file to tenfold. tenfold recognizes all changes and automatically sends out the required alteration requests.



## PERMISSIONS MANAGEMENT ACROSS ALL BORDERS

### tenfold means flexible expansion

System-wide permissions management is the key to increasing your IT security. The highest level of security is achieved when user data (and correlating permissions) running together from systems like Active Directory® / file server Exchange®, SharePoint®, Dynamics NAV/CRM/AX, office 365®, SAP®, CRM-/ERP-/Ticketing systems, are automatically controlled.

#### HR data import

Personal data can be exported from the HR system via database queries, web services or function calls. Attribute settings can be configured freely.

Of course, personal data can also be automatically transferred from a CVS or XML file, with time-control. tenfold automatically recognizes start and end dates of employment, as well as changes to master data.

#### Integrating/embedding your self-developed solutions

Critical data are often kept in applications that were developed in-house. tenfold has several possibilities of integrating self-developed applications: SQL, interfaces, RFC/RPC, web services, import/export, and more.

Only tenfold Enterprise Edition offers these flexible expansion options.

Object	Requested for	Request date	Ticket	Last approved by	Request source	Request type	Request status
Person masterdata change	Blume Frank	Mar 1, 2018 2:13:30 PM		Sennelmeier Helmut (systemfold)	HR System	+ New	DONE
Person masterdata change	Tarbo Frank	Feb 15, 2018 11:33:30 AM		Sennelmeier Helmut (systemfold)	HR System	x Delete	DONE
Person masterdata change	Tarbo Frank	Feb 15, 2018 2:45:55 AM		Sennelmeier Helmut (systemfold)	HR System	+ New	DONE
Person masterdata change	Höse Frank	Feb 15, 2018 9:45:21 AM		Sennelmeier Helmut (systemfold)	HR System	+ New	DONE

HR data-import - an efficient interface between tenfold and HR

```

1 Param (string $username, [string] $password, [string] $password)
2
3 If ( (Test-Path -Path "D:\test\user\path\username" -PathType Container) ) {
4     # Create the directory
5     New-Item -path "D:\test\user\path\username" -ItemType Directory
6     # Example: "D:\test\user\path\username"
7
8     # full control permissions on folder
9     $rights = [System.Security.AccessControl.FileSystemRights]::FullControl
10
11 # Define InheritanceFlags: defines how the security privileges can be inherited by default
12 $inherit = [System.Security.AccessControl.InheritanceFlags]::ContainerInherit, "ObjectInherit"
13
14 # Define PropagationFlags: specifies which access rights are inherited from the parent folder (users folder).
15 $propagation = [System.Security.AccessControl.PropagationFlags]::None
16
17 # Define AccessControlType: defines if the rule created below will be an "Allow" or "Deny" rule
18 $access = [System.Security.AccessControl.AccessControlType]::Allow
19
20 $acl = New-Object System.Security.Principal.SecurityIdentifier("BUILTIN\Users")
21
22 # Define a new access rule to apply to users folders
23 $rule = New-Object System.Security.AccessControl.FileSystemAccessRule($acl, $rights, $inherit, $propagation, $access)
24
25 $acl = Get-Acl $username
26 $acl.AddAccessRule($rule)
27 $acl.SetAccess($acl)
28 $acl.SetAccess($acl)
29
30 Set-Acl $username $acl
  
```

Integration of solutions developed in-house

## TENFOLD EDITIONS AT A GLANCE

NEW  
tenfold 2018

### tenfold Essentials Edition - easily manage your Active Directory® and file servers

tenfold Essentials Edition focusses entirely on Active Directory management and file server permissions. This edition is perfect to help you get started on your permissions management within a Microsoft® environment. tenfold comprehensively illustrates effective folder permissions. For administrative purposes, tenfold automatically generates a Microsoft®-conforming group structure (incl. list rights). This edition offers integrated workflows and an intuitive self-service option: data owners, supervisors and IT personnel are all involved in the process. Automatically generated e-mails notify persons in charge of any actions necessary. tenfold uses profiles - but what does that mean? It means that, once they are linked to the appropriate profiles, individual staff members automatically receive the required basic permissions, depending on what department, cost center, job position or location they are in. If a profile is modified, the changes are automatically applied to all persons who have been assigned to it.

**tenfold**  
Essentials Edition

### tenfold Essentials Plus Edition - advanced functions for Microsoft SharePoint® und Exchange®

Take no risks with SharePoint® and ensure that only users who actually need it are given access to websites, lists and elements. tenfold provides an immediate overview of which SharePoint® elements your users effectively have access to. Exchange® has long been plaguing administrators because it lacks a central console for visualizing and altering mailbox and folder permissions. End users are able to set permissions within their own mailboxes. tenfold allows for detailed definitions of who has access to certain mailboxes and their respective subfolders. The user report depicts which public folders and equipment mailboxes each user effectively has access to.

**tenfold**  
Essentials Plus Edition

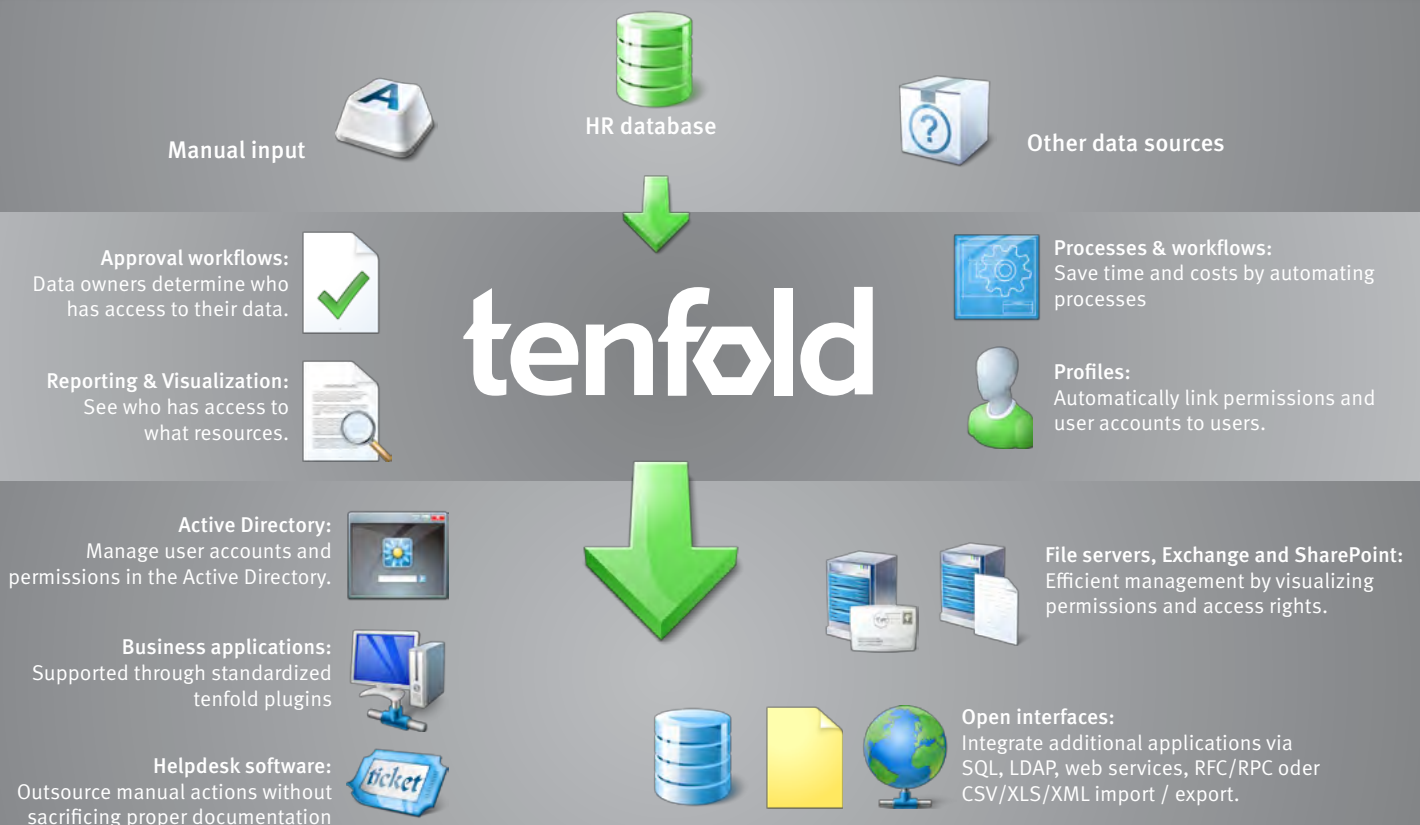
### tenfold Enterprise Edition - Advanced functions for application permissions

The tenfold Enterprise Edition offers further functions: it allows integration of other systems used for managing central IT permissions through plugins. tenfold supports systems like Active Directory® / file servers, Exchange®, SharePoint®, Dynamics NAV/CRM/AX, office 365®, SAP, CRM/ERP/Ticketing systems. Find more information regarding products currently supported in tenfold on our website [www.tenfold-security.com/en](http://www.tenfold-security.com/en).

**tenfold**  
Enterprise Edition






## TECHNOLOGICAL INNOVATION: GET A HEAD-START

### How does tenfold work?







### What are the advantages of using tenfold?






#### For the organization

-  Conform to standards (EU-GDPR, ISO 27000, BSI etc.)
-  Audits are simplified
-  Transparent overview of all permissions
-  Automation of important processes
-  Data controllers are directly involved

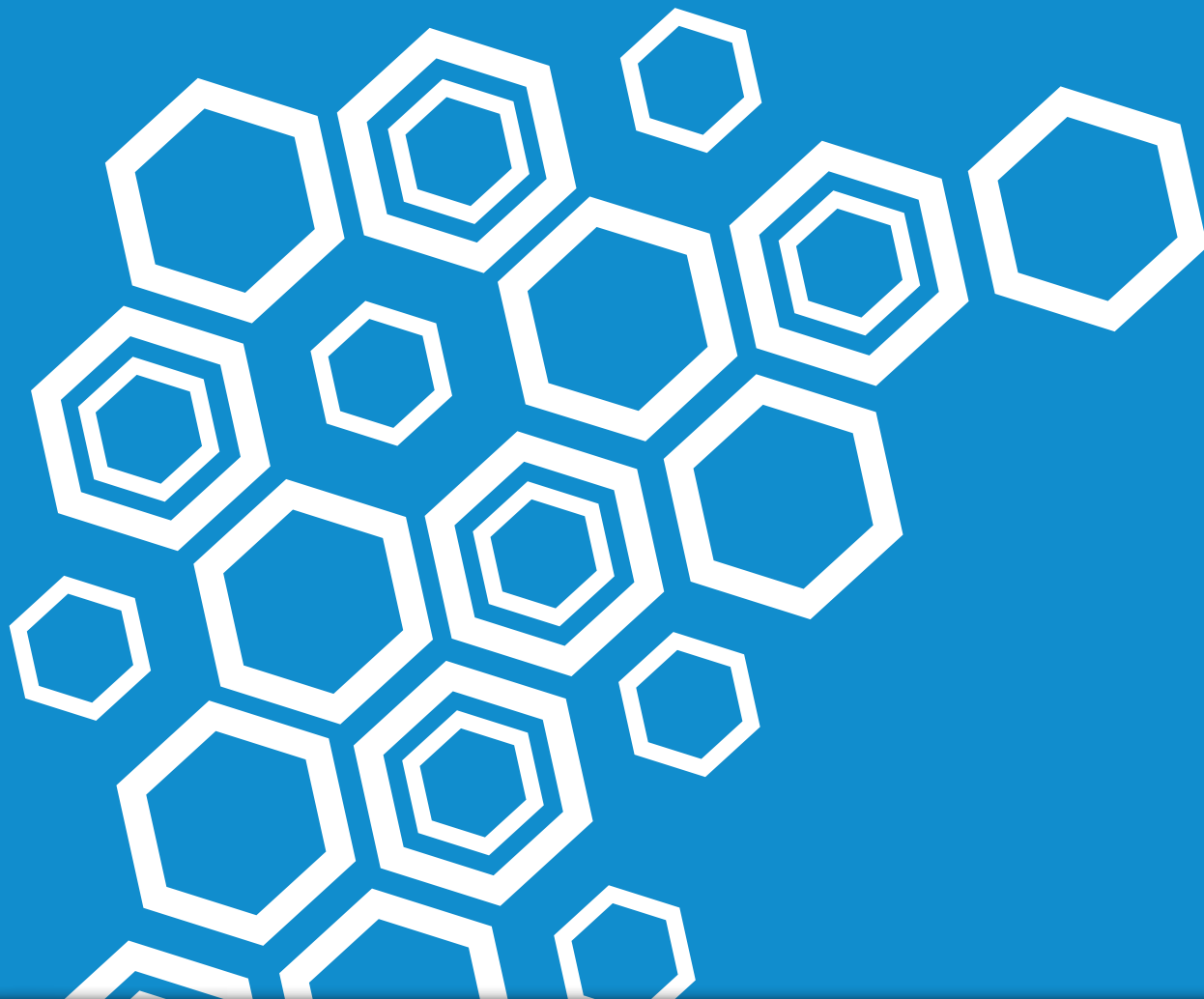
#### For IT managers, CIO, CISO

-  Data theft or misuse is minimized
-  Better compliance
-  Better governance through better overview
-  Automatic adaptation of permissions through profiles

#### For administrators

-  Automation of processes like start date / end date / department changes
-  Elimination of routine activities
-  Errors are minimized
-  Keep better overview in complex environments
-  Automatic documentation





### Whitepapers based on practical experience

- Best practices for permissions management in Microsoft environments
- Permissions management according to new EU-GDPR (author: Horst Speichert, lawyer)

Send a request to [info@tenfold-security.com](mailto:info@tenfold-security.com)!

# tenfold

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