



CARO-Suite

CARO automatically cleans up the access rights on your IT systems

Identify, evaluate and automatically implement authorisation concepts

Historically grown IT structures are a thing of the past with CARO. Security gaps are eliminated and automatically reduced. CARO brings order to your IT structures!



Overview - Clarity

CARO analyses your access rights

The errors in your access rights are clearly displayed and you receive suggestions for action for optimisation..



Simple - Customised

CARO cleans up your access rights

Your permissions are simply structured and optimised according to your needs.



Relief - Safety

CARO automatically keeps your access rights clean

You are freed from tedious work and can be confident of increased safety.



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CUSATUM

Your competence
for tidy access rights
in the 21st century

CARO-Suite - Access rights under control!

The CARO suite closes the gap between authorisation management solutions, such as SolarWinds' ARM, and an IDM/IAM solution.



DO THE FOLLOWING PROBLEMS SOUND FAMILIAR TO YOU?

- Unnecessary workload due to IT clutter causes you considerable costs.
- You do not know whether your access rights have vulnerabilities or you do not know how to prevent them effectively, permanently and, above all, reliably.
- You lack an overview in internal reporting and there are no clear roles and no clean processes in access management.



THIS IS HOW YOUR WORK IN IT WILL CHANGE WITH THE CARO-SUITE:

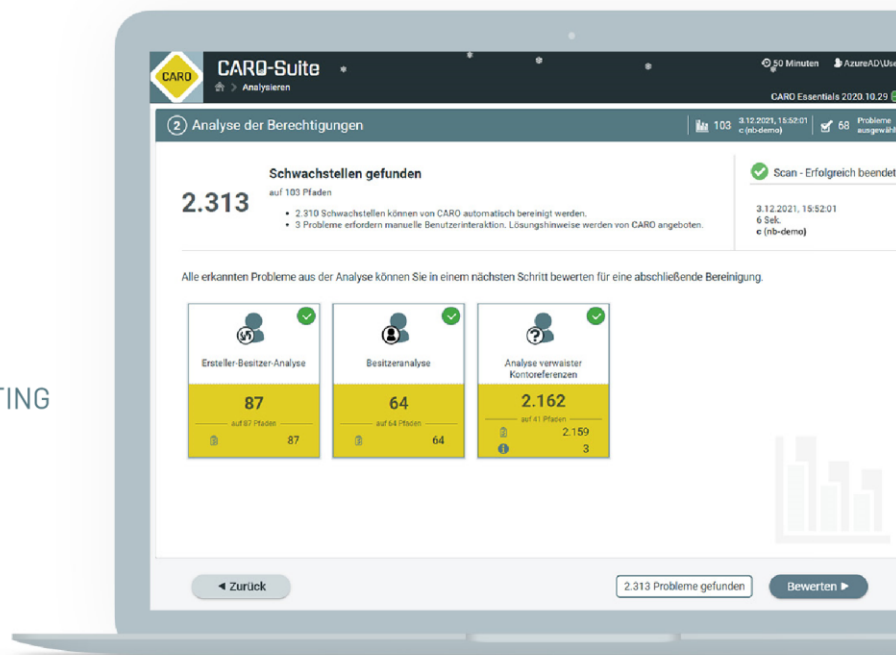
- You immediately have less costs and work through reliably tidy access rights with CARO.
- You finally regain control over your access rights, are accurately shown the weak points in the future and can thus minimise security risks.
- You become an expert when it comes to internal reporting and can look forward to an IT audit with peace of mind.

CARO-Suite - Access rights under control!

With CARO-Suite, you can analyse authorisation errors and access rights risks and clean them up automatically. Save time and money through clean authorisation structures with optimised access rights.

THE CARO-SUITE OFFERS

- WEAKNESS REDUCTION
- PERMISSION ASSESSMENT
- AUDIT-DASHBOARD & REPORTING



CARO

WEAKNESS
REDUCTION



AUDIT-DASHBOARD
& REPORTING



PERMISSION
ASSESSMENT



CARO-Suite - 3 disciplines for more security in IT

WEAKNESS REDUCTION – FOR SIMPLICITY AND PERFORMANCE



CARO shows central authorisation errors, vulnerabilities and inconsistencies on your file servers.

- Secure and fast IT audits
- User provisioning works cleanly
- Improved system performance

With grown file server structures and large directory depths, the repair of authorisation errors is no longer possible manually.



SIMPLICITY AND INCREASED PERFORMANCE

PERMISSION ASSESSMENT – FOR EFFICIENCY AND SAFETY



CARO analyses the authorisation situation in your company and shows who can access which resources.

In the global resources view, you can see the group memberships from the Active Directory and the access rights for your file servers.

The access rights analysis solves a central problem. With Microsoft standard tools, it is impossible to quickly display the access rights situation of a user. Nested AD groups and the resulting multiple authorisations make it difficult to analyse the authorisation situation. CARO gives you back control through:

- Security against external unauthorised access
- Security against internal data loss

With just a few clicks, you can record the authorisation situation of users, groups and directories. With this knowledge, you are able to act and protect your company from internal security incidents.



INCREASING EFFICIENCY AND SAFETY

CARO-Suite – 3 Disciplines for more Security in IT

AUDIT-DASHBOARD & REPORTING – FOR ORDER AND CLARITY



CARO creates reports that are really needed.

- Understandable and compact reports
- Ability of data controllers to provide information to auditors
- Improved compliance

Auditors are amazed when they see an employee's access rights on a page. Managers are relieved when they know who can access the personnel data folder.



MORE ORDER AND CLARITY



CARO-Suite – 3 Disciplines for more Security in IT

WEAKNESS REDUCTION

- ✓ TEUS
- ✓ ERBE
- ✓ BAKS
- ✓ DUKE
- ✓ VASS
- ✓ RAPA

PERMISSION ASSESSMENT

- ✓ EBIS
- ✓ RAPA
- ✓ LARS
- ✓ DARS
- ✓ MARS

AUDIT-DASHBAORD & REPORTING

- ✓ EBIS
- ✓ ARCA

Analysis and clean-up modules

BAKS

Owner analysis and correction software

- Ensures permissible owners so that administrative accounts retain their authorisation, e.g. for backup tools to work
- Analyses security risks by removing unauthorised and uncontrollable access permissions

EBIS

Recording of the actual authorisation situation

- Records the authorisation situation on file servers
- Analyses for interrupted inheritance hierarchies, shifted directories or null DACL, among other things
- Displays in detail the changed permissions below, such as added

TEUS

Tool for removing unknown SIDs

- Removes dead SIDs and makes the documentation of your permissions easier to read and understand again
- Reduces the demands of your audit and documents that you have full control
- Provides more security, as there is less attack surface for SID history injection

CARO-Suite – Analysis and clean-up modules

DUKE

Remove direct access rights of unwanted accounts

- Identifies all direct permissions of the configured unwanted accounts and removes them
- Reduces security risks by removing uncontrollable access permissions

ERBE

Remove creator-owner on file systems

- Removes the creator-owner and prevents the creation of new dead SIDs
- Allows a clean migration, e.g. to the Cloud

VASS

Inheritance Analysis and Remediation Software

- Identifies changed permissions in folder hierarchies
- Alignment of permissions through inheritance or other system-specific tools

ARCA

Account Risk- und Compliance-Assessment

- Analyses account-based best practice criteria
- Inactive user or computer accounts, deactivated user accounts
- Accounts with passwords that never expire or passwords that have not been changed for a long time

DARS

Analyse direct user access rights

- Identifies direct permissions of users
- Corrects efficiently these permissions

CARO-Suite – Analysis and clean-up modules

MARS

Minimum permission analysis and restructuring software

- Checks all documents and folders for required account access rights, taking into account both direct and indirect access rights
- Sets missing permissions

RAPA

Redundant User Permission Analysis

- Identifies redundant permissions
- Checking group memberships with concurrent direct permissions

LARS

List Groups Analysis and Restructuring Software

- Analysis of permissions in folder hierarchies
- Manage list permissions in parent folders

Eleven cleansing and analysis modules are delivered with the CARO suite as standard.

- ✓ Many analyses for authorisation errors and risks included
- ✓ Global resource view of access rights with group memberships
- ✓ High-performance scans and comprehensive analyses to change your problematic access rights
- ✓ Ability to plan scans and changes for any point in time
- ✓ Filesystem and Active Directory
- ✓ Basic reports in PDF format, easily customisable to your own corporate identity using Word Office report templates
- ✓ Multilingual WebClient with multi-user support
- ✓ Integration into other systems via Rest-API or PowerShell
- ✓ Data storage in MS-SQL database
- ✓ Automation of joiner-mover-leaver processes possible with the add-on module **C-MAN**
- ✓ Simple licensing model

CARO-Suite

Analyse

30 Minuten AzureAD/Use

2. Analyse der Berechtigungen

Schwachstellen gefunden

auf 99 Dateien

- 2.424 Schwachstellen können von CARO automatisch bereinigt werden.
- 2 Probleme erfordern manuelle Benutzerintervention. Lösungshinweise werden von CARO angeboten.

✓ Scan - Erfolgreich beendet

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6 Sek.
(60-Sekunde)

3. Bewerten der Berechtigungsprobleme

99 Files 99 Dateien 1/1 Alles auswählen Alles abwählen Ausgewählte Analysen

Problem	Benutzer	Objekt	Minimale	Relevante	Erhöhtes	Erhöhtes
Vocalhost\drive						
Vocalhost\drive\global share\Finanz\gucken				1		
Vocalhost\drive\global share\Archive	1				81	
Vocalhost\drive\global share\Finanz	1				81	
Vocalhost\drive\global share\Finanz\Assets	1					
Vocalhost\drive\global share\Finanz\Assets\2011	1				52	
Vocalhost\drive\global share\Finanz\Assets\2012	1				71	
Vocalhost\drive\global share\Finanz\Galerien	1				99	
Vocalhost\drive\global share\Finanz\Galerien\München	1				88	
Vocalhost\drive\global share\Finanz\richt gucken	1				74	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten	1				82	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				55	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				95	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				81	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				65	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				74	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				71	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				107	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				123	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				39	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				46	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				68	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				117	
Vocalhost\drive\global share\Finanz\richt gucken\steuerdaten\Channel Islands	1				53	

! Probleme

Ersteller-Besitzer-Analyse

1 Problem

Berechtigung entfernen

Creator Owner

FC MD RX R W L

Analysen verwalteter Kontenbeziehungen

72 Probleme

Besitzer ändern

Ändere Besitzer von S-1-5-2-1-42625757-526714973-212867986-1022 in NB-UTSchenstein

[x] Ändere der Besitzer auch in Unterzeichnungs

[x] Ändere der Besitzer auch in Daten

Berechtigung entfernen

S-1-5-2-155235532-12244242265-7532299-72050

FC MD RX R W L SP M L

Berechtigung entfernen

S-1-5-2-181445529-0243891915-62150289-91239

FC MD RX R W L SP M L

Berechtigung entfernen

S-1-5-2-183812720-025216802-45843464-7850

FC MD RX R W L SP M L

Berechtigung entfernen

S-1-5-2-192688230-2195527282-46991915-75701

FC MD RX R W L SP M L

Berechtigung entfernen

S-1-5-2-194413264-395482117-021994673-97298

FC MD RX R W L SP M L

Berechtigung entfernen

S-1-5-2-300990431-4114542495-808324772-1806

FC MD RX R W L SP M L

**SECURITY
MADE IN
GERMANY**

CUSATUM - Access rights under control!

The CARO suite uncovers a wide range of security risks in the access rights environment and cleans them up automatically.



MORE SECURITY

CARO stands for automatically clean access rights in your IT systems. You can trust that your IT infrastructure is secure and you have everything under control.

The CARO suite contains several vulnerability remediation modules that are required for successful remediation in complex IT systems.



LESS EFFORT

CARO frees you from monotonous workload by performing many similar clean-up actions automatically.

You save both time and money and reduce security risks. At the same time, the performance of your IT systems is improved. CARO helps you ensure that IT auditors and IT reviewers ask fewer awkward questions. IT audits are carried out in less time and with less effort.

Data owners get clear and much shorter access reports compared to an untidy system.



LESS COSTS

We get the management system for your access rights up and running for you. Step by step, we set up CARO together with you. Your users are productive with CARO and have their access rights securely under control. Do you need additional support during your successful deployment of CARO? Or would you like to further develop your authorisation management?

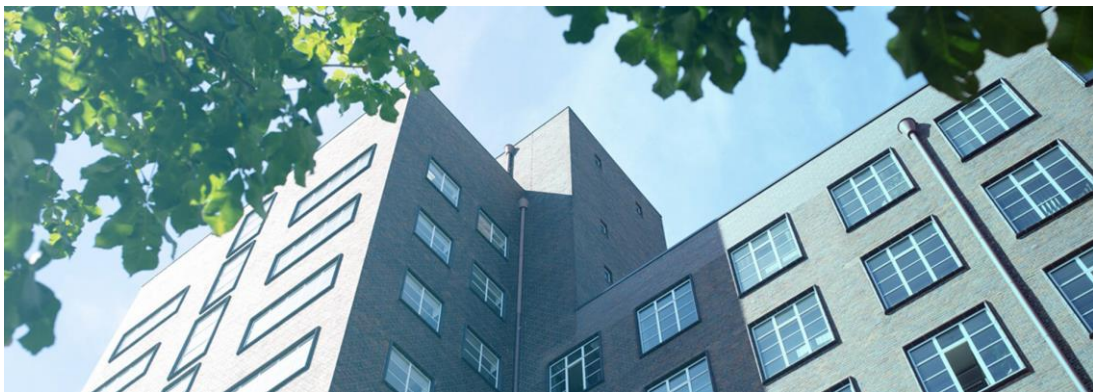
WE ARE HAPPY TO REMAIN YOUR COMPETENT PARTNER!

CUSATUM – Together for more safety!

CUSATUM Service GmbH in Berlin/Brandenburg is a software and consulting company with a focus on authorisation management and process automation.

CUSATUM develops the CARO Suite, the CUSATUM Access Rights Optimizer.

This software is a solution for the automated cleansing of IT structures in Microsoft and virtual server environments and supports companies in the authorisation management for the fulfilment of common security and compliance guidelines.



CUSATUM Service GmbH has developed Protected Networks' 8MAN as a core team from its beginnings for 10 years and laid the foundation for Protected Networks to become so successful in the German-speaking region. During these years, we were able to deal with the topic of DSGVO on a daily basis with a focus on access right management and role concepts. Now our customers can benefit from the experience we have gained by developing the CARO-Suite.

