



CSI Authorization Auditor

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CSI Authorization Auditor is the audit & monitoring application of authorization and role setup in SAP environments. It makes a snapshot of a SAP system to gain insight into the past or current authorization setup of the SAP system.

The application reveals weaknesses in your authorization concept but also helps identifying undesired authorizations, accumulation of access rights, unsecured back doors and cross-system segregation of duties. Assess your risk exposure by finding inconsistencies between what people are allowed to do, can do, did and can almost do. CSI Authorization Auditor comes with a pre-defined SoD engine with more than 400 SoD conflicts.

The application further supports the security & control processes by allowing documenting control measures, such as compensating controls.



1. Functionality

CSI Authorization Auditor analyses the assignment of critical functionality (audit queries) and SoD conflicts. Delta reporting is possible between various analyses. CSI Authorization Auditor can verify the completeness of SAP GRC rule sets because transaction code access and authorization access is checked separately.

Other features include statistical error reporting such as incorrect organizational values; unused roles; user types, manual and changed authorizations, etc. CSI Authorization Auditor now also reports all causing information to support remediation projects. The dashboards and trending overviews enable management to monitor the SoD statuses. The user access simulation with preventive SoD analysis ensures that the system stays clean.

CSI Authorization Auditor can be used to document all risks, control objectives and control measures. A control measure can be a manual or a configurable control. Configurable controls are checked automatically.

With one license you can audit / monitor unlimited number of SAP systems and thus unlimited number of users. Authorization Auditor is available as Client/Server version, standalone PC version and as Software as a Server (Saas).



2. Features and benefits

2.1 Audit features

- **Fast analysis.** Analyses do no longer take hours but minutes The application is developed using the latest technology: .net framework & SQL. There is no longer a 2 Gb database restriction. Developments are done using Multi Thread causing high performance analysis
- **Perform audit and SoD analysis on every desired level** (user, role, profile). Analyze the security concept of (in)correct assignment of critical SAP functionality and SoD conflicts using pre-defined SoD engine with more than 400 SoD conflicts.
- **Perform audits with organizational values.** The rule set can be centrally adjusted with all organizational values like company code, plants, sales organizations, et cetera. Every audit and SoD run can be run with the defined organizational values.
- **Analyze the security concept.** All information is available: Composite roles, single roles, users, profiles, reference users, assignments of composite roles, assignment of direct and indirect singles roles, assignment of profiles, assignment of transactions to users, user buffer details, all transaction codes a user can execute and all transaction codes executed by the user in the past (even if the user has no longer access).
- **Report causing information.** Causing information is available to get an insight in used SAP functionality and executed SoD conflicts. All audit reports have the full causing information available with insight how these access rights are assigned to users. On every level an indication is given if the user needs the role.
- **Customizable reporting.** CSI Authorization Auditor comes with a large number of useful reports and dashboards. Is the report or dashboard not fitting the business requirements? Customizing is also possible to create new ones. End-users can define their own grouping of all data shown on screen and every view can be exported to different formats like xlsx, xml, pdf and accdb.
- **Dashboards.** CSI Authorization Auditor comes with a large number of useful reports and dashboard views for management reporting. Since all historic audit data is saved, trending reports will give management insight in the evolution



- **Reproduce reports and compare audit and SoD results over time.**
The application uses two databases: an application database and an archive database. All original SAP data is saved in the archive as well as all audit results. The advantages are enormous. Previous audit results are immediately available if needed, audit results can be compared in detail with previous audit results, new audit rules & requirements can be checked against old downloads, Trending dashboards that show the evolution of the last 12 months for example can be produced in seconds.
- **Insight in inconsistencies** (accumulation of access rights). All analyses are done separately on authorization level and transaction code level and executed information. The differences between these results give experts an immediate insight of inconsistencies in the SAP roles and / or audit rules and / or in the access governance process.
- **Business information available in the results.** The norm feature in CSI Authorization Auditor gives an extensive answer to the question 'Should a user (not) be able to perform a particular functionality or SoD conflict?' The answer is expressed by setting normative information for each user per functionality per variant. Business users can add this information to the results directly.
- **Documentation of compensating controls.** Assign control measures to a SOD and compare the audit and SoD results. Compensating controls can be documented and mapped with the SoD rules.
- **Client/server.** Work simultaneous with multiple users on the same data. Giving end-users display access to the results in CSI Authorization Auditor, no more manual report distribution is needed. Results can also be accessed via the web. With CSI Authorization Auditor Client Server your audit cycle can fully be scheduled and automated, this saves time and reduces manual faults.. CSI Authorization auditor is available in client/server version and standalone PC version.
- **Work remotely.** Auditing and monitoring with CSI AA can be done remotely and off line avoiding all types of collateral costs such as travel expenses.
- **Tasks are supported with wizards.** A sequence of dialog boxes leads the user through a series of well-defined steps (wizard). Tasks that are infrequently performed are easier to perform using the wizard and the selected audit settings can be saved for future use.
- **Changes to queries and SOD rules now have a full change log**



- **Run SoD simulations to prevent new SoD conflicts.** Simulate if requesting a new role for a user or composite role will lead to new SoD conflicts.
- **Check correctness of assigned non organizational values.** The full review functionality can be used to check if the roles and/or profiles are set up with the correct non organizational values, for example to check if the display roles only contain display authorizations and if the correct movement types are assigned to the roles and profiles.
- **Involved persons reporting.** Use involved persons to bind individuals to the different items throughout the system, giving the opportunity to generate reports per involved person.
- **Download and add additional SAP data to reports.** Use CSI Authorization Auditor to custom import additional data from SAP or an Access database and use this data in the reports.
- **Large data handling.** The application is developed using the latest technology: .net framework & SQL with no database size limits and fast performance of the application.
- **Analysis cockpit provides insight in:** number of users, number of master single roles, number of derived single roles, number of authorization lines, statistics about all authorization lines: manual, changed, inactivated and statistics of unused roles

2.2 Business support features

- **Display audit results.** Business users can be given display rights to view the reports and audit results in CSI Authorization Auditor. The tool comes with a large number of useful reports and dashboards. Is the report or dashboard not fitting the business requirements? Customizing is also possible so create new ones. End-users can define their own grouping of all data shown on screen and every view can be exported to different formats like xlsx, xml, pdf and accdb.
- **Update business information and feedback in the results.** The local business units can check the correctness and update the information if a user should (not) be able to perform a particular functionality or SoD conflict using the norm functionality.



- **Run SoD simulations and prevent SoD conflicts.** Business users can simulate if assigning new roles to users and composite roles will lead to SoD conflicts.

2.3 Monitoring features

- **Organize the business control framework.** CSI Authorization Auditor provides functionality to define a companies' business control framework and get compliant using processes, risks, control objectives and control measures.
- **Document the security process on the fly.** Documenting the security process can take a long time. With CSI Authorization Auditor you can simultaneous implement and document the business process with risks and controls step by step. Add any information about the security process to CSI Authorization Auditor and make changes on the fly using drag and drop.
- **Central usage of business processes.** CSI Authorization Auditor provides functionality to decompose the organizations' business scenarios using processes, which can be used throughout the application (e.g. for business control framework purposes or for authorization management purposes).
- **Automatic checking of customizing settings.** After having norms defined for the table content, it is possible to check automatically the defined norms versus actual implemented settings. This results in a more effective security process.
- **Storage of evidence data.** All the compliance data (like test evidence, compensating controls, business model et cetera) is stored in CSI Authorization Auditor. With all the information in one place, you can easily prove you are compliant.
- **Receive messages automatically.** Messages can be distributed according the RASCI matrix. Implement the organizations' responsibility assignment matrix to automate the security task messages. People are informed automatically when they need to perform a task in the security process.

2.4 License Management support features

- **Insight information in the SAP licenses.** SAP license manager module is now available to verify if license fees to SAP can be reduced by removing/changing some access rights.



3. Benefits

Efficient (ROI)

- Can be done online with instant access to intelligence reports
- Root cause analysis is done automatically and available on screen

Effective (Best Practice / Security Improvement)

- Mergers: IT risks are known within the week
- QA check on your SAP monitoring system
- Simulation on rule changes
- How much does the system deviate
- Preventive SOD analysis can be run
- Full root cause analysis done in each SoD report

Tuned for business readiness

- Dynamic and pointed on demand on any SAP system
- Mergers: process & IT risks are known in the week
- Report on Desired State versus Actual StateBenefits



4. Software as a Service (SaaS)

CSI Authorization Auditor is also available as SaaS license.

Our SaaS environment (also dedicated available) has advantages, compared with local installation and can be used with or without VPN connection to your SAP environment(s).



High adoption CSI Authorization Auditor SaaS application is available from any computer or any device—any time, anywhere. Because most people are familiar with using the Internet to find what they need.



Lower initial costs. CSI Authorization Auditor SaaS application is subscription based. No license fees mean lower initial costs. Having CSI tools manage the IT infrastructure means lower IT costs for hardware, software, and the people needed to manage it all.



Painless upgrades. Because CSI tools manages all updates and upgrades, there are no updates for customers to download or install. CSI tools also manages availability, so there's no need for customers to add hardware, software, or bandwidth as the user base grows.



Seamless integration. CSI tools can scale indefinitely to meet customer demand. CSI tools also offer customization capabilities to meet specific needs. Plus, a VPN connection to your SAP system is possible so you can fully automate and integrate with the SAP systems.



5. PC license vs Client Server License vs SaaS license

	PC License	Client/Server license	SaaS license
Audit and analyze SAP environment(s) for SoD conflicts and critical access	✓	✓	✓
Monitor SAP environments and reduce risks	✓	✓	✓
Simulate SOD conflicts for user/role changes	✓	✓	✓
SAP license audits	✓	✓	✓
SoD ruleset included (incl updates)	✓	✓	✓
Dashboarding and report customization	✓	✓	✓
Monitor SAP system settings and SAP system parameters	✓	✓	✓
Audit and analyze Non-SAP environment(s) for SoD conflicts and critical access		✓ *	✓ *
Multi – users can work simultaneously		✓	✓
Automate the audit cycle	1CAB	✓	✓
Web based reporting & simulation		✓	✓
Automated report distribution		✓	✓
Integration with SAP environment via RFC connection	✓	✓	
Integration with SAP environment via RFC and VPN connection			✓
Subscription based			✓
Updates & availability managed by CSI tools			✓