



Xiting ABAP Alchemist

Xiting Authorizations Management Suite (XAMS)

XITING ABAP ALCHEMIST

The Xiting ABAP Alchemist helps you to analyze your custom ABAP code and find potential vulnerabilities, such as missing authority checks. Additionally, it enabled you to optimize your SU24 proposal database for existing authority checks in your custom code.

It also offers recommendations for implementing additional security controls that have not to date been applied to the source code. Suggested improvements can prevent possible weaknesses, and potential security gaps can then be closed.

Challenge

Despite regulations and automated tools, program development is complicated and involves a high level of security risk in SAP systems.

With self-developed applications, correct authorization assignment is often a particular problem since no security mechanisms have been implemented in the source code during program development. The existence and accuracy of security checks in the source code is essential for accurate and differentiated access control in SAP authorization systems.

Granular access control of authorizations is only possible after security checks have been established and optimized in self-developed applications.

However, traditional code scanning techniques only tend to focus on identifying security-related errors in the source code; they fail to warn the user about the impact of such errors on the system, which transactions are affected, and how the problems can be solved.

GOALS

- Implement and optimize security checks in custom ABAP code.
- Avoid mistakes when implementing authorization checks.
- Get recommendations for implementing additional security checks to prevent weaknesses in the source code and close potential security loopholes.





ABAP Alchemist Xiting Authorizations Management Suite

Solution

The ABAP Alchemist will help you to optimize existing security checks in self-developed applications and help to clean up errors when implementing new authorization checks.

The tool also offers recommendations for implementing additional security checks that have not been implemented within the source code. Possible weaknesses can be identified and remediated based on suggested improvements and potential security gaps can then be closed.

Call Stack Analysis

The Call Stack Analysis function in the XAMS ABAP Alchemist makes it possible to analyze the procedures within a development object and support developers and authorization administrators to identify encapsulated functions within the source code.

SU24 Optimization

The integrated optimization function for SU24 data makes it possible to

compare and maintain suggested values for analyzed development objects on the basis of the security checks contained in the code. As a result, you can maintain your SU24 data more sustainably in terms of authorization management and to avoid potential authorization errors.

Individual determination of the number of checks and the definition of development objects to be tested makes flexible use of the tool possible. Predefined tests can be used on a recurring basis and serve as a positive and proactive measure for internal control systems (ICS).

ABAP Code Scan Patterns

- Missing Authorization Checks
- Macro definitions and calls
- Open SQL patterns
- Debugging code
- DATASET operation authority
- Access to system fields (SYST)
- Critical ABAP keywords
- GET/SET parameter uses
- Switchable authorization checks API

KEY BENEFITS

- Optimize existing and find missing authorization checks on custom ABAP code.
- Optimize SU24 based on authorization checks in your custom code.
- API finder to make it easier to reuse code blocks provided by SAP.



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