

# Code Review Practices

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# Introduction

ZINFI adopts a state-of-the-art agile systems development lifecycle (SDLC) methodology for the development and implementation of channel management solutions, with security as the top priority. In the past, security was applied at the commissioning stage of the development process and was force-fitted into the final design, resulting in an inconsistently secured application. Security was eventually integrated into every step of the SDLC, from initiation to development to deployment and eventual disposal of the system, following a security-by-design (SBD) approach.

Security-by-design is an approach to software and hardware development that seeks to minimize systems' vulnerabilities and reduce the attack surface by designing and building security into every phase of the SDLC. This includes incorporation of security specifications in the design, continuous security evaluation at each phase and adherence to best practices.

## Source Code Review

Following the Secure Development Lifecycle (SDL) guidelines, we perform static analysis during the implementation phase of the development cycle. Azure DevOps is commonly utilized to review the code offline. The code analysis feature of Visual Studio performs static code analysis to help us identify potential design, globalization, interoperability, performance, and security issues, as well as a host of other potential problems. The following operations are performed to review the source code and convert insecure source code to secure code:

