

# CASE STUDY

IBM i Secure Application Deployment with Safe-Update

Asian Software Development Company *Anonymized | Confidential*



## Client Profile

<b>Industry</b>	Software Development & Technology Services
<b>Region</b>	Asia-Pacific
<b>Environment</b>	IBM i — 6 LPARs supporting software development, quality assurance, staging, and production environments for multiple enterprise clients
<b>Security Scope</b>	Change Management, Secure Software Deployment, Release Control, and Auditability
<b>Assessment Type</b>	DevSecOps & Change Control Improvement Initiative

## The Challenge

The software company developed and maintained IBM i applications for customers across financial services, manufacturing, logistics, and retail sectors. Frequent software releases and ongoing application enhancements created challenges related to deployment security, change control, and compliance.

### Risks Associated with Software Updates

Development teams regularly promoted application changes from development and testing environments into production systems. Key concerns included:

- Unauthorized program modifications
- Deployment of unapproved code into production
- Human errors during release processes
- Lack of validation for software updates
- Difficulty tracking application changes across environments

Management required stronger controls to ensure that only approved and validated software components could be deployed.

### Compliance and Customer Requirements

Many customers required formal change management procedures and audit trails for software releases. Challenges included:

- Demonstrating control over application deployments
- Maintaining complete records of software changes
- Supporting customer compliance requirements
- Reducing risks associated with production releases
- Improving accountability throughout the software lifecycle

The organization sought a solution capable of securing and validating software updates while streamlining deployment operations.

## Solution Deployed

Raz-Lee deployed the following iSecurity module across the IBM i environment:

### iSecurity Safe-Update

Implemented secure change management and software deployment controls for IBM i applications.

Capabilities included:

- Validation of software updates before deployment
- Protection against unauthorized program modifications
- Controlled promotion of application objects between environments
- Verification of approved software releases
- Detailed tracking of software changes and deployments
- Improved integrity of production applications
- Support for internal and customer audit requirements

The implementation established a controlled and secure framework for managing software releases across the development lifecycle.

## Results

- Improved integrity of software deployment processes
- Reduced risk of unauthorized or accidental application changes
- Strengthened control over production releases
- Enhanced visibility into application modifications and update history
- Improved compliance with customer and internal change management requirements
- Increased accountability throughout the software development lifecycle
- Reduced deployment-related operational risks
- Deployment completed without disruption to ongoing development activities

The organization significantly strengthened its release management practices while improving security, accountability, and confidence in software deployments.

## Key QSA Feedback

*“As a software provider, maintaining the integrity of our release process is critical. Safe-Update gave us the ability to verify and control application deployments, ensuring that only approved changes reach production environments. This significantly improved both our security posture and our customers' confidence in our development processes.”*

— Director of Software Engineering (paraphrased)

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*For more information, contact [razlee.com](http://razlee.com)*