

## Case Study – Security Automation

**Customer**      **Major High-tech Company**  
**Industry**      **Semi-conductor**

### About Customer

A major semi-conductor company based in the Silicon Valley, California and the world's leading supplier of process control and yield management solutions for the semiconductor and related microelectronics industries. The company's products and services enable integrated circuit manufacturers to manage yield throughout the wafer fabrication process from research and development to final mass production yield analysis. In addition, it provides manufacturing with older technologies and refurbished certified tools. The company also provides other services, such as on-site repair, system installation, and educational services. It sells its products and services through direct sales force and distributors primarily in the United States and Japan, as well as in Europe and the Asia-Pacific region.

### Business Challenge

This Global High-tech giant has a very large user base of tens of thousands of active users. Because of the enterprise's sheer size and diversity of its lines of business, the customer expected an extremely high volume of security transactions – user to role assignments (new hires, employee moves, and changes in employee responsibility) and on-going changes to users' data-level access as the business' organizational structure evolved. The organization required a security model which would meet these requirements, yet called for minimal resources to support, ensured accuracy of security transactions processed, involved the business in approving user governance requests, and remained tightly controlled adhering to a “least privilege” design methodology.

### QS&S Solution

Roles were designed by Job Function and standardized across all component systems (i.e., SAP ECC, BW, CRM, SEM-BPS). Similarly, data-level access was standardized across all component systems to ensure that users would be limited to the same organizational levels, regardless of the system they were accessing. Workplace was used to organize menu paths and serve as the primary user interface for the various component systems. The HR Organizational Structure was leveraged to assign roles to users' positions; meaning that as an employee changes positions or is hired into a position, they were automatically assigned to the roles associated with that position.

Workflow was implemented to allow any user of the system to submit a security governance request which is routed to appropriate approvers within the business. The workflow is designed to prohibit redundant functionality assignments and warn of Segregation of Duties (SOD) violations.

The request is routed to appropriate business data owners for approval. Once fully approved, roles are assigned automatically to the user's position with no manual intervention required by security. Similarly, requests for modifying a role's data-level access are approved through workflow. Once the request is routed to and approved by the appropriate business data owners, a build specification is created which identifies by component system all of the roles to be

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modified; the build specification is reviewed by security for final approval and then automatically updates the roles within the appropriate development systems.

### **Benefits**

- ? Streamlined and simplified security and roles structure
- ? Standardized foundation on which to begin the Sarbanes-Oxley review.
- ? Minimize resource requirements for security staff,
- ? Accurately process security requests by removing manual processing,
- ? Realize ownership of security by the business, and still retain a highly controlled environment

### **Technology**

- ? SAP ECC 5.0
- ? SAP Application Modules – FI, CO, SD, MM, PP

### **Methodology**

- ? Accelerated SAP (ASAP) project methodology
- ? Understand, analyze and gather business requirements
- ? Workshops methodology to gather requirements and demonstrate the TO-BE functionality
- ? Unit Testing and User Acceptance Tests
- ? Go-live Cut-over planning
- ? Post go-live Support

### **Why QS&S?**

- ? Acknowledged SAP Experts in the industry
- ? Deep knowledge and understanding of business processes, procedures and functions
- ? Most qualified team with audit and security skills

### **About QS&S**

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