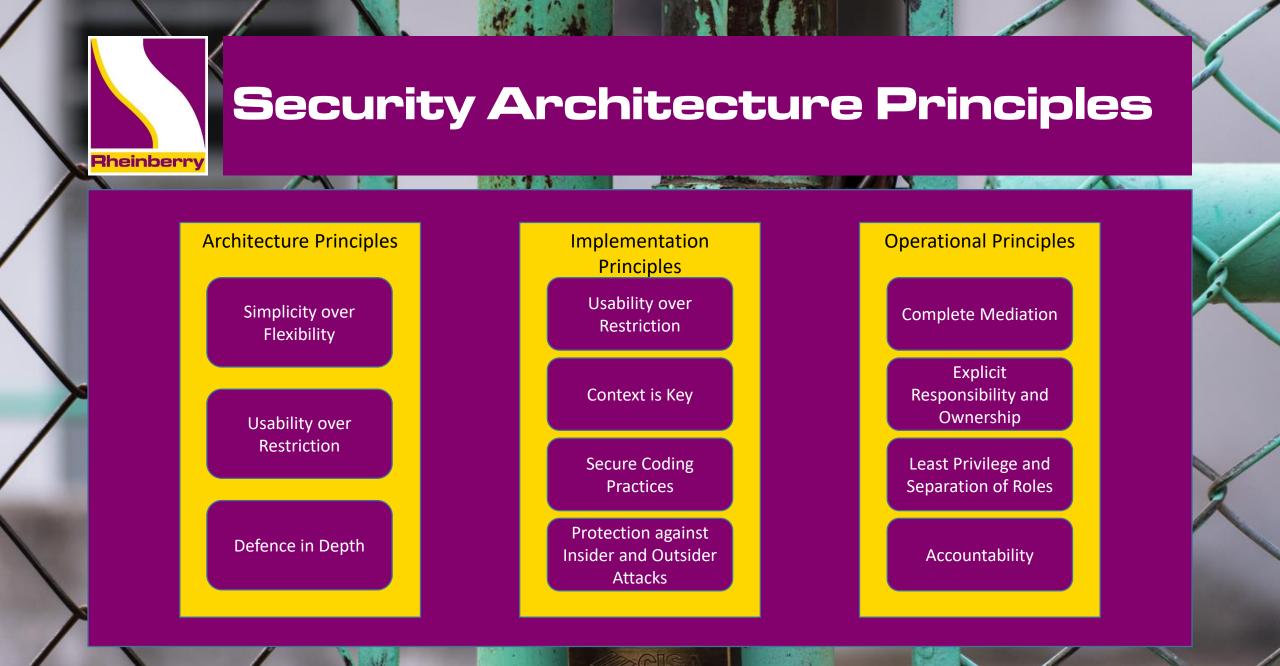


December 2018

Rheinberry



Security Architecture Principles

Architecture Principles:

Rheinberry

- **Simplicity over Flexibility**: your security mechanisms should be pervasive, simple, scalable, and easy to manage flexibility often leads to complexity.
- Usability over Restriction: focus on making the control usable, so your users are not inclined to find methods to work around them.
- **Defence in Depth**: do not rely on single controls which in the event of failure have no secondary compensating controls.

Implementation Principles:

- **Open Design**: security by obscurity is ineffective.
- **Context is Key**: context should be explicit and not assumed.
- Secure Coding Practices: build the system securely, reduce costs and future security issues.
- Protection against Insider and Outsider Attacks: do not assume insiders are always benign.

Security Architecture Principles

Operational Principles

Rheinberry

- **Complete Mediation**: every event must be checked for authority.
- Explicit Responsibility and Ownership: ensure your system and data owners are aware of their responsibilities. *
- Least Privilege and Separation of Roles: only grant the access required for a specific role.
- Accountability: solutions must collect audit information on system operations.

* It is implicit that data and systems have explicit owners

Security Objectives

Meeting these objectives ensures your business's security:

• Focus on the business

Rheinberr

- Deliver quality and value to the stakeholders
- Comply with relevant legal and regulatory requirements
- Provide timely and accurate information on security performance
- Evaluate current and future information threats
- Promote continuous improvement in information security
- Adopt a risk-based approach
- Protect classified information
- Concentrate on critical business applications
- Develop systems securely
- Foster a security-positive culture

Rheinberry – an introduction...

- Rheinberry _____
- Rheinberry created in 2014
- Formed by experienced IT and business consultants
- Expertise across aviation, telecoms, utilities, retail, finance, pharmaceuticals and engineering
- Delivery focussed & flexible
- Provision of seasoned consultants providing programme & project management, business & technical analysis, architecture and strategy
- IBM Business Partner
- Siemens MindSphere Partner

www.rheinberry.com

<u>info@rheinberry.com</u>