

## Application Architecture Assessment

If you are designing or deploying a new complex distributed application or need to understand the risks in an existing application, do you know exactly where the security issues lie within that system?

IRM's Application Architecture Assessment evaluates the security of all the key components making up that application using proven methodologies to assess the security of the application architecture. The result is a clearer view of the vulnerabilities that may be present.

IRM will identify the key components providing security within the application and will highlight possible architectural flaws that would allow an attacker to gain access to sensitive information such as customer data.

A complete Application Architecture Assessment includes the following phases:

- **Architecture Mapping**

IRM will gather information about the functional application architecture and expose the security architecture implicit within the system. This information is gathered through interviews and documentation review.

- **Component Analysis**

Each component of the application will be evaluated in turn, understanding the correct operation of each segment. Each piece of the application will also be considered in detail within the wider context of the system as a whole.

- **Vulnerability Identification and Analysis**

The security requirements of the system will be analysed and any potential vulnerabilities in the gaps between the requirements and the implementation will be highlighted. The following are considered core components of this analysis yet other areas of interest may be considered as appropriate to the application in question:

- Functional security requirements
- Execution environment
- Security of data in motion
- Genealogy of trust
- Administration
- Perimeter control
- Instrumentation for proof

- **Vulnerability Validation and Risk Assessment**

IRM's findings will be presented to both senior technical and business staff in order to confirm the existence of the vulnerabilities and gain a clear understanding of the implications for the business.

- **Deliverables**

IRM will deliver a formal report including an executive summary, a summary of the application's business context, an overview of the application architecture, the findings of component analysis and the identified vulnerabilities, including resolution recommendations.

### About IRM

Information Risk Management Plc (IRM) is a vendor-independent information security consultancy. Founded in 1998 to work alongside global enterprises in understanding the security risks inherent in an increasingly interconnected business environment, IRM has become a leader in penetration testing, risk assessment and security auditing.