



Navigating the Legal and Compliance Landscape in Cloud Computing

This slide explores the critical legal and compliance considerations organizations must navigate when adopting cloud computing services.

Aligning Cloud Policies with Legal Requirements

- **Develop Comprehensive Cloud Security Policies**

Organizations must establish detailed cloud security policies that address key compliance requirements across multiple jurisdictions.

- **Address Data Residency Regulations**

Policies should clearly define where data can be stored and processed to comply with local data sovereignty laws.

- **Implement Access Control Measures**

Policies should outline strict user authentication, authorization, and access management controls for cloud environments.

- **Enforce Encryption Standards**

Policies should mandate the use of robust encryption protocols for data at rest and in transit to meet compliance requirements.

- **Align with Global Compliance Standards**

Policies should ensure alignment with international standards such as GDPR, HIPAA, and PCI DSS to maintain global compliance.

Enterprise Risk Management in the Cloud

New Risk Factors

Cloud computing introduces new risk factors such as data sovereignty, vendor lock-in, and regulatory compliance risks.

Shared Responsibility

Shared responsibility models between cloud providers and customers complicate risk assessment and management.

Operational Risks

Cloud adoption can impact operational risks, including availability, performance, and incident response.

Security Risks

Cloud environments introduce new security risks such as data breaches, unauthorized access, and compliance violations.

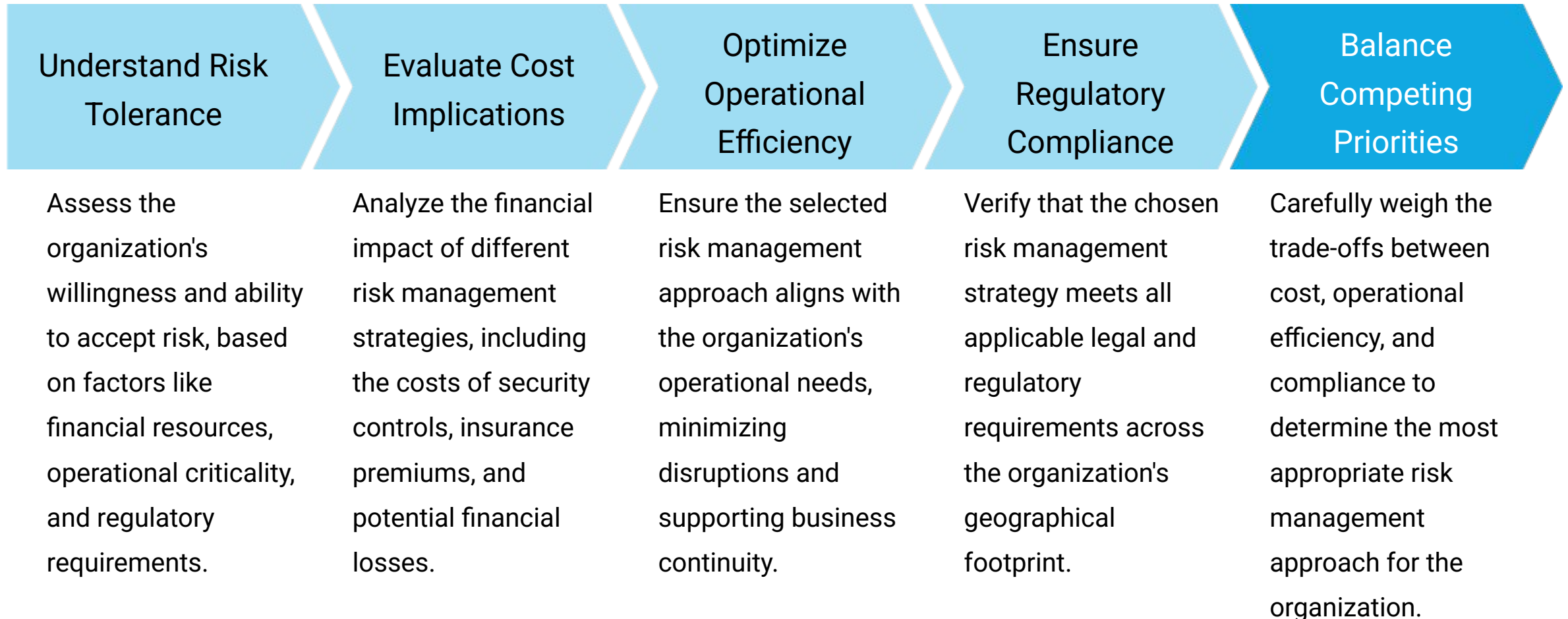
Financial Risks

Cloud adoption can lead to unexpected costs, budget overruns, and financial penalties for non-compliance.

Reputational Risks

Cloud-related security incidents and compliance failures can damage an organization's reputation and public trust.

Choosing the Right Risk Management Approach



Structured Risk Management Frameworks

- NIST Risk Management Framework (RMF)

Provides a structured process for assessing, managing, and monitoring cloud-related risks, including identifying threats, vulnerabilities, and implementing appropriate security controls.

- ISO 31000

A globally recognized standard for enterprise-wide risk assessment and management, helping organizations identify, analyze, and respond to a wide range of risks, including those posed by cloud adoption.

A framework for IT governance and management, providing guidance on aligning IT objectives with business goals, managing cloud-related risks, and ensuring compliance with relevant laws and regulations.

- ITIL

A set of best practices for IT service management, including processes for incident response, problem management, and change control, which are crucial for maintaining security and availability in cloud environments.

Different Risk Management Choices.

- 1- Risk Avoidance.
- 2- Risk Acceptance.
- 3- Risk Transfer.
- 4- Risk Mitigation.

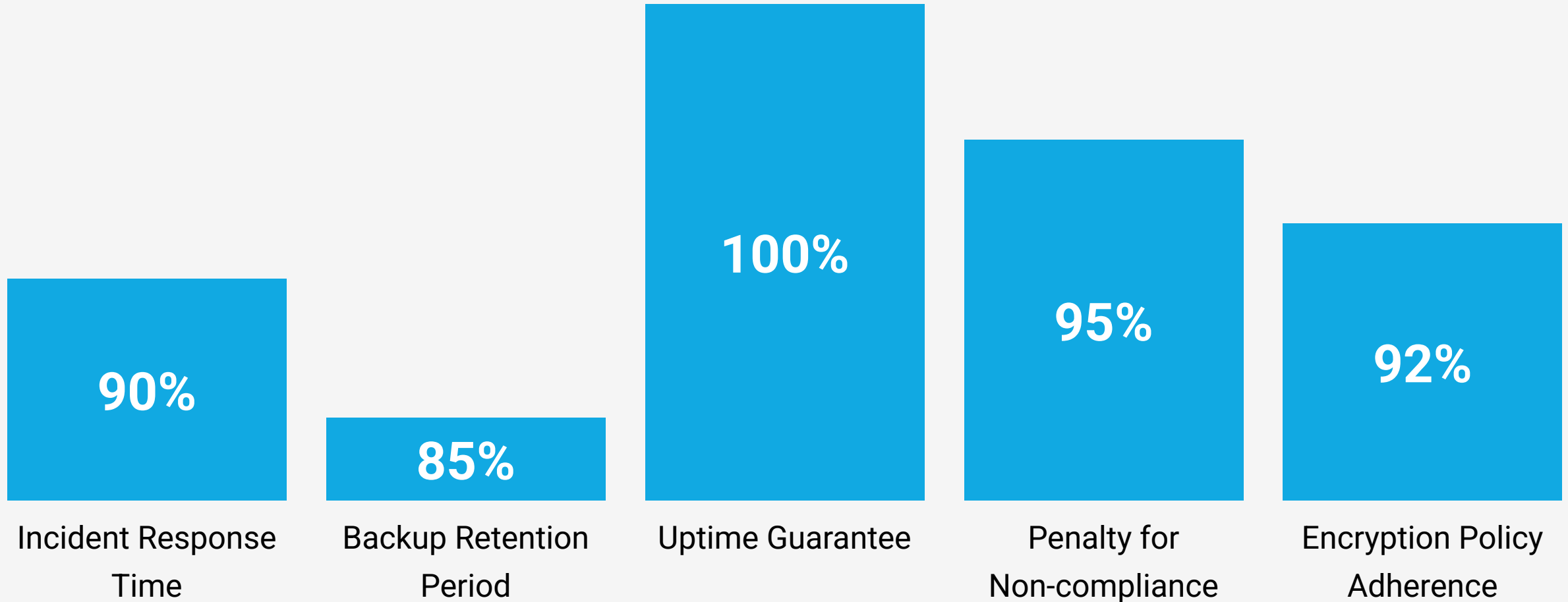
Measuring and Monitoring Cloud Risks

Metric	Value
Number of security incidents related to cloud assets	12
Time to detect and respond to threats in cloud environments	30 minutes

*Derived from risk management framework best practices

Contractual Obligations and SLAs

Comparison of contractual obligations and service-level agreements (SLAs) across critical areas





Navigating the Complexities of Cloud Security and Compliance

Strategies for managing legal, regulatory, and operational risks in cloud environments

Business Requirements

- **Align cloud security and compliance with business objectives**
Ensure cloud security strategies support the organization's mission, operational needs, and growth plans.
- **Implement access control mechanisms**
Establish identity management, authentication, and authorization processes to govern access to cloud resources.
- **Establish governance models**
Develop policies, processes, and organizational structures to oversee cloud security, risk management, and compliance.
- **Comply with industry regulations and standards**
Adhere to compliance requirements such as HIPAA, GDPR, PCI DSS, and ISO 27001 to mitigate legal and financial risks.
- **Determine data classification policies**
Classify data assets based on sensitivity, criticality, and regulatory obligations to apply appropriate security controls.

Cloud Contract Design and Management for Outsourcing

Defining Data Ownership

Cloud contracts should clearly specify data ownership rights, including who has access, control, and responsibility for data stored in the cloud.

Regulatory Compliance Requirements

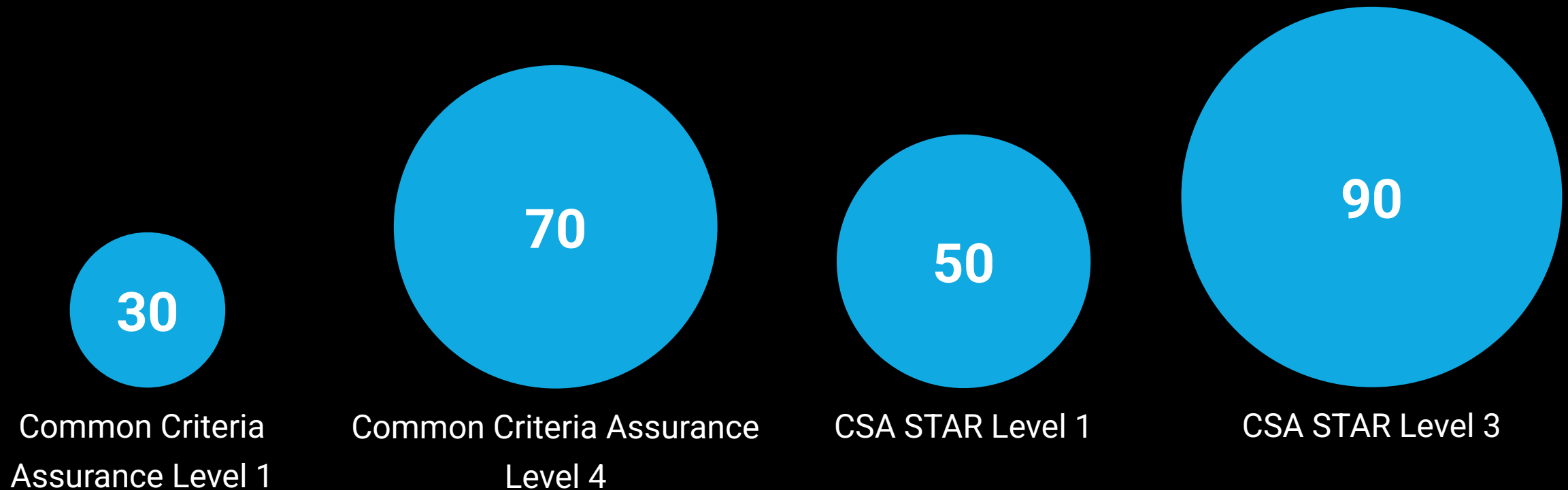
Contracts should address compliance with industry regulations such as HIPAA, GDPR, PCI DSS, and ISO 27001, ensuring the cloud provider adheres to these standards.

Security Obligations and Responsibilities

Outsourcing agreements must define the shared security responsibilities between the cloud provider and the customer, outlining who is responsible for which security controls.

Identifying Appropriate Supply Chain and Vendor Management Processes

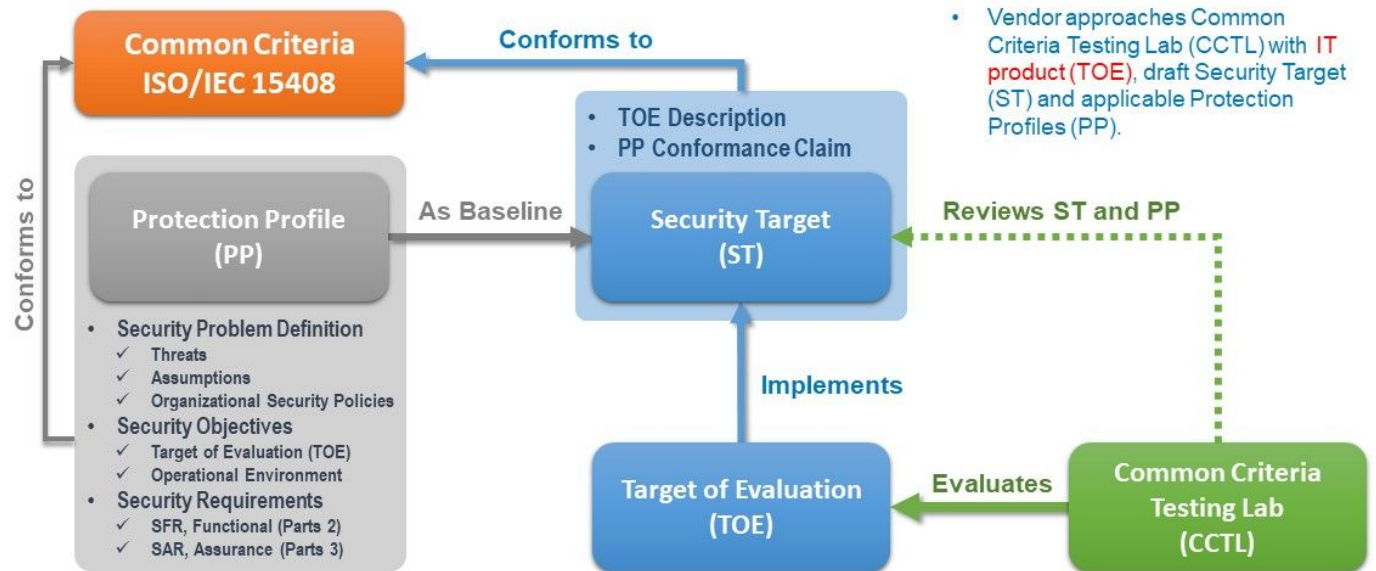
Comparison of Common Criteria Assurance Levels and CSA STAR Levels



Common Criteria Assurance Framework

The Common Criteria Assurance Framework is a globally recognized framework that evaluates the security of IT products and systems. It defines assurance levels to assess the security functionality of cloud services and vendors.

Common Criteria Evaluation



Cloud Security Alliance

A cloud security assurance framework developed by the Cloud Security Alliance (CSA) that provides a registry of audited cloud providers that meet security and compliance standards.



Supply Chain Risks

When evaluating supply chain risk, the customer should be thinking of disaster recovery and business continuity: What happens if something goes wrong with one or more of these vendors on which your business depends?

The following supply chain risks are common:

- Financial instability of provider
- Single points of failure
- Data breaches
- Malware infestations
- Data loss

ISO 28000:2007 also provides for a certification against certain elements that relate to supply chain risk:

- Security management policy
- Organizational objectives
- Risk management practices
- Documented practices and records
- Supplier relationships
- Roles, responsibilities, and authorities
- Organizational procedures and processes

Managing Communication with Relevant Parties



Transparent Communication with Cloud Vendors

Transparent Communication with Regulators

Transparent Communication
with Stakeholders

Defined Notification Procedures

Key Takeaways

- **Structured Approach to Risk Management**
Implement a comprehensive risk management framework to identify, assess, and mitigate risks in cloud environments
- **Effective Contract Negotiation**
Develop cloud contracts that clearly define data ownership, security obligations, and compliance requirements
- **Alignment with Regulatory Landscape**
Ensure cloud infrastructure and operations comply with relevant industry regulations such as HIPAA, GDPR, and PCI DSS
- **Navigate Complex Legal Jurisdictions**
Understand and address the legal implications of cloud services across different geographical locations and legal frameworks
- **Define Clear Service Level Agreements (SLAs)**
Establish well-defined SLAs with cloud providers to ensure service delivery, availability, and performance meet organizational needs
- **Assess Vendor Security Practices**
Evaluate the security controls, certifications, and supply chain practices of cloud service providers to mitigate risks