

Internal Audit and Information Security, CIP, and Assurance

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Technology Practices

The Institute of Internal Auditors, Inc.

February 3, 2003

San Francisco, CA

Integrity

- **Begins at the Top,**
- **Permeates the Organization,**
- **Exists in a Complex Environment**

Governance

- **Effective Board Oversight**
- **Duty of Care to Stakeholders**
- **Compliance with Regulations**

Assurance

- **Provided through**
 - **Dual Reporting,**
 - **Independent Sources**
- **Derived from**
 - **Monitoring,**
 - **Analytics,**
 - **Assessment**

Risk Management

Maintains Risk Within:

- **Defined,**
- **Acceptable**

Boundaries

Risk

- **Spans Organizational Boundaries**
- **Subject to Complex Interactions**

Access



Enables

- **Commerce,**
- **Communication,**
- **Progress,**
- **Threats**

What is intrusion?

- **Outsiders?**
- **Insiders?**

Intrusion monitoring:

- **Network,**
- **Host,**
- **Application,**
- **Data**

Analytics:

- **Rules violations,**
- **Anomalies**
- **Violation of Trust,**
- **Intentional Misrepresentation**
- **Comparisons with**
 - **Organization and Industry Norms,**
 - **Economy,**
 - **Trends,**
 - **Patterns**

Risk

- **Quantitative Risk Analysis and Management Tools**
- **Cataloguing of**
 - **Threats**
 - **Probabilities,**
 - **Experiences**



GASSP

PCIS

The image features a dark blue gradient background. In the center, the letters "PCIS" are written in a bold, white, serif font. Surrounding the text are three overlapping circles. Each circle contains several concentric rings, with the innermost ring being a dotted line and the outer rings being solid lines. The circles overlap in a way that creates a central area where all three intersect.

