

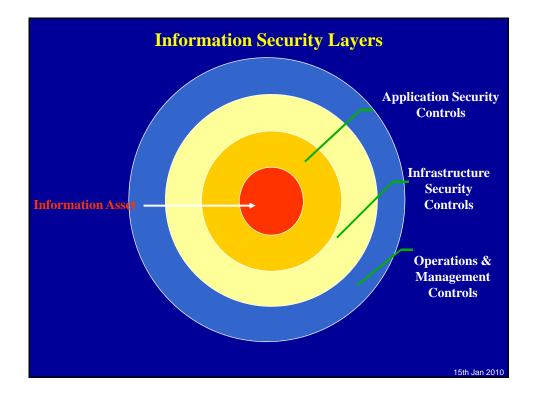
e-Governance Security Standards and Guidelines An Overview

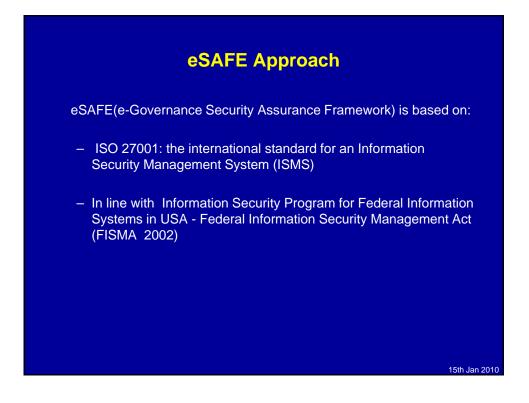
Why Need for Information Security?

With the aim to provide "trusted" services by safeguarding the "information assets" in terms of confidentiality, integrity and availability. The "Value" of information held and processed by e-Governance services needs to be protected at all the following layers

- Application
- Infrastructure
- Operations and Management

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Basis of the approach

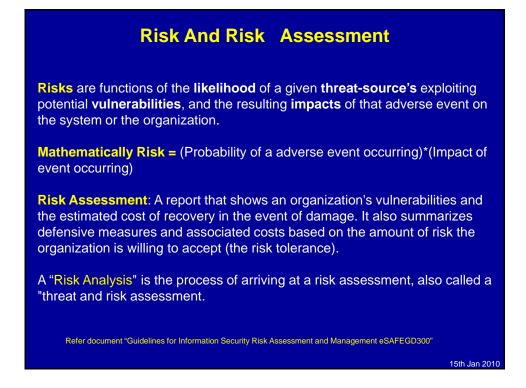
Need for compliance under IT Act

Under Section 43A of IT Act it is required to comply "reasonable security practices and procedures" and Government in consultation with professional bodies such as DSCI is in the process of prescribing ISO 27001 as reference standard

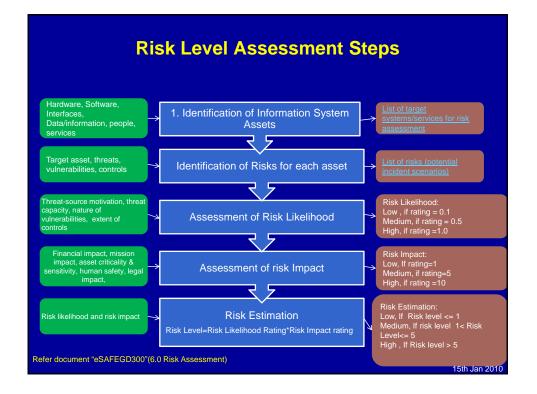
Adopting FISMA approach helps in:

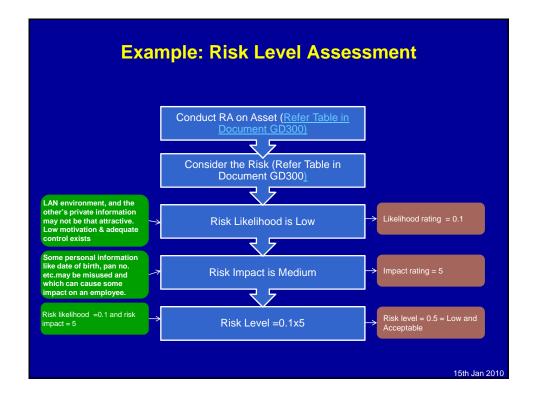
- Categorizing e-Governance information systems based on the objectives of providing appropriate levels of information security according to a range of risk levels
- Identifying minimum information security requirements controls for information systems in each such category

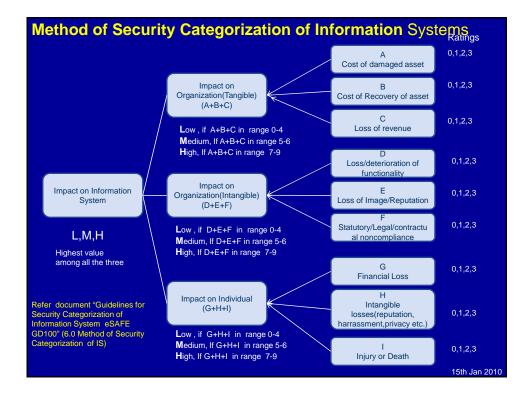
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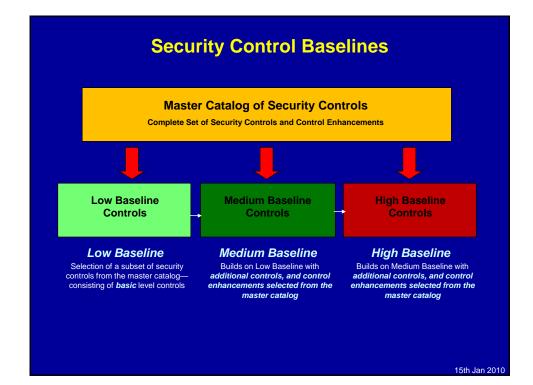


| | Risk Levels | |
|------------|--|-------|
| Risk Level | Risk Description | |
| High | Risk needs to be mitigated as soon as possible. Risk treatment plan with identified additional controls and control improvements and time frame for implementation needs to be prepared. | |
| Medium | Risk needs to be mitigated within a reasonable period of time. Risk treatment plan with identified additional controls and control improvements and time frame for implementation needs to be prepared. | |
| Low | Risk is acceptable and no other control or control improvements are required. | |
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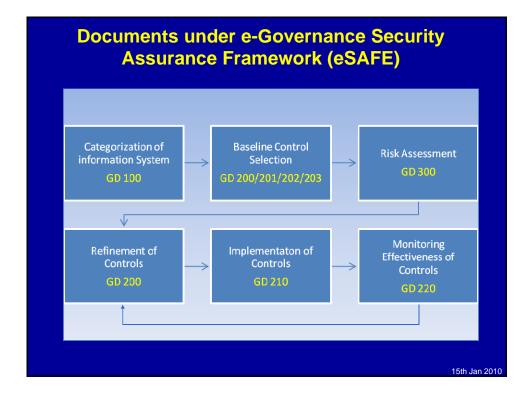








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|---|---|--|--|--|----------------|
| O.BC-8: INFORMATION SYTEM BAC | KUP & R | ECOVERY | | | |
| Control: Back-up of information (user-level a information system shall be taken at defined fr | | | | | ined in tł |
| Explanation: The frequency of information s to alternate storage sites (if so designated) are recovery point objectives (RPO). While integril backup information, protecting backup information consideration depending on the type of inform Control Improvements: | e consisten ty and avai ation from u | t with the reco lability are the inauthorized o | overy time obj primary conc lisclosure is a | ectives (RT cerns for sys | O) and stem |
| The back-up information shall be tes back-up policy to verify media reliabi The backup information shall be sele functions as a part of contingency pla The backup copies of the operating s be stored in a separate facility or in a operational software The system backup information shall | lity and info ectively use an testing system and a fire-proof | ormation integ d in the resto l other critical container that | rity ration of inforr information sy is not colloca | nation syste /stem softw ited with the | em are shal |
| | Low | Medium | High | RA | |
| | ন | ⊠, (i), (ii) | 🗹, (i), (ii), (iii) | (iv) | |
| O.BC-8: INFORMATION SYSTEM BACK UP AND RECOVERY | | -///// | | | 15th Ja |



| Title of Document | Scope of Document | Target Audience | | |
|--|---|---|--|--|
| ISF 01 e-Governance Security Standards Framework: An Approach Paper | | | | |
| eSAFE-GD100 Guidelines for Security Categorization of Information System | Classify information systems based on potential impacts to the organization in case of security breaches. The guideline can be applied for all information systems to be used for e- Governance by all government departments and the third party service providers | Employees for information security risk assessment management within an organization 2. Third party service provider supporting such | | |
| eSAFE-GD200 Catalog of Security Controls | Provide guidelines for selecting and specifying security controls for information systems for e-Governance of the state and central governments of India. The guidelines apply to all components of an information system that process, store, or transmit information | | | |
| eSAFE-GD201 eSAFE-GD202 eSAFE-GD203 Baseline Security Controls for Low Impact ,Medium Impact and High Impact Information Systems | provide guidelines for specifying security controls for low impact, Medium Impact and High Impact information systems for e-Governance of the state and central governments of India. The guidelines apply to all components of an information system that process, store or transmit information. | activities. | | |
| eSAFE-GD300 Guidelines for Information Security Risk Assessment and Management | Provides guidelines for Information Security Risk Assessment and Management in an e-Governance project, supporting the e-Governance Security Standards Framework (eSAFE). This document can also be used to conduct risk assessment and risk management to comply the requirements of ISO/IEC 27001. | | | |
| eSAFE-GD210 Guidelines for Implementation of Security Control | Under preparation | | | |
| eSAFE-GD220 Guidelines for Assessment of effectiveness of security controls | Under preparation | 15111 5011 2010 | | |

| ISF 01 | Framework Information Security Assessment Framework |
|-------------|--|
| | |
| GD 100 | Guidelines for Information System Categorization |
| GD 200 | Catalog of Security Controls |
| GD 201 | Baseline Security Control for LOW IMPACT INFORMATION SYSTEMS |
| GD 202 | Baseline Security Control for MEDIUM IMPACT INFORMATION SYSTEMS |
| GD 203 | Baseline Security Control for HIGH IMPACT INFORMATION SYSTEMS |
| GD 210 | Guidelines for Implementation of Security Controls |
| GD 220 | Guidelines for Assessment of Effectiveness of Security Controls |
| GD 300 | Guidelines for Information Security Risk Assessment and Management |
| Delegand fr | or use by Stakeholders in e-Governance Applications |

Expert Committee on Information Security

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