Chinese general techniques requirements for important information systems

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Sept. 27th, 2011
1. Introduce for Chinese information security level protection system
1. Introduce

The work on Chinese information security classified protection

- **Grading**
  - The notice regarding the development of the national important information system classification protection grading work (2007)

- **Recording**
  - The implementation details on information security level protection recording (2007)

- **Construction and rectification**
  - The guidance on security construction and rectification work of information systems level protection (2009)

- **Classified evaluation**
  - The notice on the promotion of information security level protection evaluation system and the development of level evaluation work (2010)

- **Checking**
  - The standards of public security organs inspection work on information security level protection (2008)

Management approach on information security level protection (2007)

PRC regulations on security protection of computer information system (1994)
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Grading range of important information systems:

- The important information systems in information services unit of the business public Internet, Internet access service units, data centers and other units.

- The important information systems in railways, banking, customs, taxation, civil aviation, electricity, securities, insurance, foreign affairs, science and technology, development and reform, national defense, public security and other industries, sectors of production, scheduling, management and office.
1. Introduce

Grading range of important information systems:

☐ The important websites and office information systems in city (prefecture) level and above party and government organs.

☐ Information system involving state secrets.
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2. **Work objectives of construction and rectification in information security level protection**
2. Work objectives

☐ Three years.

☐ Three priorities.

☐ Five aspects of goals.
3. Compilation background of general techniques requirements for important information systems
3. Compilation background

Evolution

Translation

Foreign Standards

National Standards

GB17859-1999

GB/T18336-2001
For the security assessment needs of general information system, PP is used as an extension of the mechanism of customization security requirements in ISO / IEC 15408. Usually for typical application requirements, the corresponding PP is designed based on some of the basic components package provided ISO / IEC 15408 standard itself. In order to make the general techniques requirements for important information systems absorb the features of ISO / IEC 15408, we study the method of generated "Protection Profile" (PP) to generate the security elements of the general techniques requirements. Of course, different from completely generating a "Protection Profile" (PP), We must also consider China a number of other unique requirements, that is, GB17859-1999 system requirements.
In the compilation process of general techniques requirements for important information systems, we must consider the following factors:
——The features of Chinese important information systems
——Security function level
——Assurance requirements level
4. Introduction of general techniques requirements for important information systems
4. Introduction of general techniques requirements

On the security assurance requirements:

□ Based on the in-depth understanding of security assurance requirements of ISO/IEC 15408, the related content is described localized. And on this basis, the security assurance requirements of seven levels in ISO/IEC 15408 is classed into five security levels corresponding to the five security levels of GB17859. Based on the positioning of general techniques requirements of important information systems, the last three levels are used as the content.

□ From the specific content of view, 8 categories of assurance requirements of ISO/IEC 15408 were re-arranged in the standard, and on the basis of the above, the security assurance requirements set of the general techniques requirements was achieved.
4. Introduction of general techniques requirements

Relations of the level of general techniques requirements with the EAL level

<table>
<thead>
<tr>
<th>Level of general techniques requirements</th>
<th>First Level</th>
<th>Second Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAL Level</td>
<td>Between EAL4 and EAL5</td>
<td>Between EAL6 and EAL7</td>
</tr>
</tbody>
</table>
4. Introduction of general techniques requirements

On the security functional requirements:

□ In order to more formal, more detailed presentation on the related security functional requirements of general techniques requirements, we have considered ISO/IEC TR 15446:2004, Information technology-Security techniques-Guide for the production of Protection Profiles and Security Targets, NEQ, and applied its approaches into the compilation process of general techniques requirements, and successfully achieved our objective.
4. Introduction of general techniques requirements

- Security Concerns
  - Threats
  - Organizational Security
  - Assumption
    - suitable to meet
    - uphold

- TOE Objectives
- Security Objectives
- Environment Objectives
  - TOE Objectives suitable to meet
  - consistent with

- IT Security Requirements
- SOF Claims

PP rationale requirements
5. Evaluation of general techniques requirements for important information systems
The presented general techniques requirements for important information systems not only includes the security elements of the ISO/IEC 15408, but also meets the actual demand of important information systems in China very well because it is constructed based on the guidance of ISO/IEC TR 15446:2004 like PPs.

The general techniques requirements will be regarded as the unique and authoritative guidance document for important information systems in the Chinese civil market, and will be used as the proof to designing, testing and evaluation of important information systems.
Thanks for your attention.