

Security Guidelines relating to Electromagnetic Emission and Immunity Outline

April 1, 2003
Information Security Technology study group

1. Purpose

Security Guidelines relating to Electromagnetic Emission and Immunity

is compiled for the purpose of prevention for our information systems from electromagnetic emission and immunity threat.

Basis for IT oriented society has been more rapidly prepared lately. Different information systems have begun in service and accepted in our daily life; eCommerce, eGovernment.

Sound information systems require to maintain the secure fortress of personal data, and to ensure the prevention of illegal access.

With the background, security for the threats on electromagnetic emission and immunity must be regarded and dealt with as a new threat from a viewpoint of information security. The threat includes the information leakage on electromagnetic emission, IT devices malfunction or damage on electromagnetic immunity.

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2. Application

(1) Target

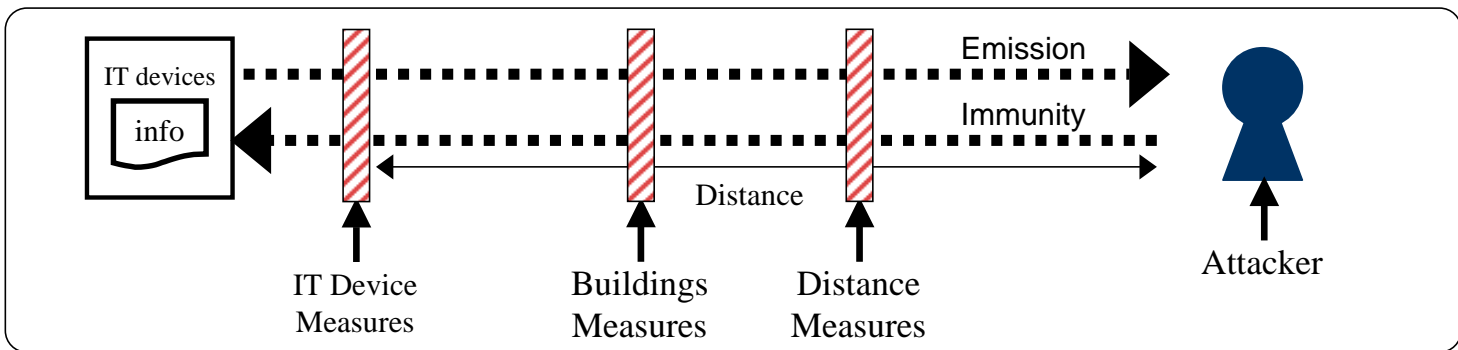
Governmental sections such as eGovernment, which deal with the significant information.
Applicable to private sector information systems.

(2) Incident

Electromagnetic emission containing information, emitted from IT devices inevitably.
Electromagnetic immunity which may reduce the possibility of malfunction or damage on IT devices.

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Electromagnetic Security Measures



As Electromagnetic Security Measures, the following are necessary:

- 1) To reduce the electromagnetic emission from IT devices which contains information
- 2) To enhance the electromagnetic immunity against attacks

The comprehensive measures with IT devices, buildings and distance are necessities.

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Electromagnetic Security Measures

- (1) **Comprehensive Measures**
 - General concept on the measures with IT devices, buildings and distance
 - Details is under consideration
- (2) **Measures for Electromagnetic Emission**
 - General concept on IT devices and their test method
 - Details is under consideration
- (3) **Measures for Electromagnetic Immunity**
 - General concept on IT devices, test method and operation threshold
- (4) **Design Standard for Construction Work**
 - General concept on construction work, performance design and performance measurements

Applicable areas of Guidelines page 1 of 2

The target areas are the following information systems in the government:

- e-Procurement System
- e-Application System
- e-Vote System
- Information Disclose System
- Office Information System

etc.,

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Applicable areas of Guidelines page 2 of 2

The target areas are the following information systems in the private sector:

- Business Management Information System
 - Information System
 - R&D Information System
 - Human Resources Information System
 - Data Center
 - eCommerce System
 - Financial/Accounting Management Information System
- etc.,

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