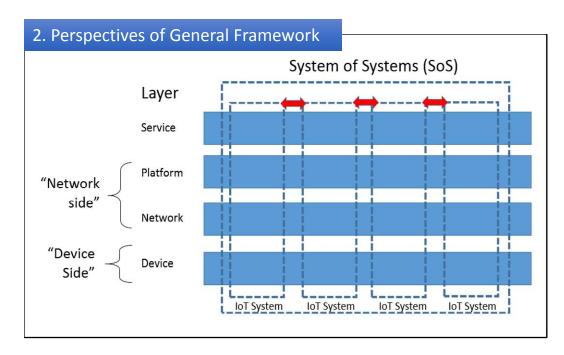
## Abstract of the General Framework for Secured IoT Systems (Draft)

- 1. The Object of the General Framework
  - a) Two-Pronged approach
    - 1 Clarifying general requirements at each stage of design, development and operation for all IoT systems
    - 2 Sector-specific requirements should be added
  - b) Clarifying fundamental and essential security requirements for secured IoT systems



## 3. Basic Principles

- a) Definitions (including the diversity and the scope) of IoT systems shall be determined and clarified. And also, those systems shall be categorized based on system's characteristics reflecting their inherent risks.
- b) Essential requirements for ensuring users' safety shall be determined as well as confidentiality, integrity and availability
- c) Essential requirements shall be determined to ensure secured system operation and service resilience in case of system failure, including rules of mission assurance.
- d) Safety assurance standards, including statutory and customary requirements, shall be determined for connected things and networks.
- e) Each item from a) to d) above shall be ensured in case of mechanical failure or cyberattacks.
- f) Responsibility boundary and information ownership of IoT systems shall be clarified. Items from a) to f) should be applied to the requirements for other cases such as interconnection of IoT systems.

## 4. Policy Approaches

- a) Determination of Requirements
  - Structures, systems and components (SSC's) as well as statutory and regulatory requirements
- b) Risk Informed Approach
  - Security measures and implementation means shall be adopted
- c) Proper application of performance requirements and specific requirements
- d) Step-by-step and continuous approach depending on technological innovation
- e) Collaboration and determination of the role-sharing
- Demarcation of responsibility between each stakeholder
- f) Consideration of other operational rules
  - Protecting personally identifiable information
  - Clarification of certification entities

## 5. Notes

This framework is described based on IoT systems envisaged at the current stage.

- necessity for preview and update in response to the factors such as advancement of functions of IoT systems along with technological innovation
- should be revised with reflecting opinions and discussions of multi-stakeholders