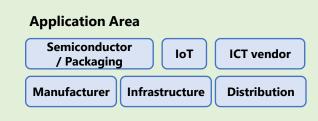
Development of Security Assurance Scheme for SCU which can be embedded to low-cost IoT devices

Electronic Commerce Security Technology Research Association
• National Institute of Advanced Industrial Science and Technology (AIST)

Systematic threat analysis clarifies security requirements and finds good tradeoffs between security evaluation rigor and development man-hour.



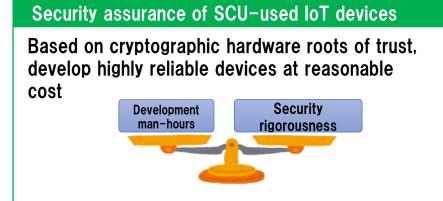
Technical Features

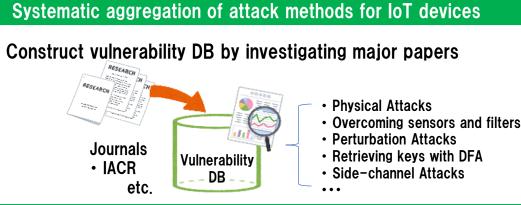
- Security level classification
 - Ensuring the validity of how to classify the level of certainty of security implementation and of how to show security for the low-cost IoT nodes.
- Security assurance schemes

 Building security assurance schemes (security evaluation technology and certification framework) optimal for devices using hardware roots of trust.

Effects • Use Case • Technical Details

- Effects
 - Third party security evaluation and certification of IoT devices equipped with SCU, which is the root of trust, is possible.
- Use Case
 - By applying this technology to devices equipped with SCU, it is possible to develop highly reliable equipment at a reasonable cost.
- Technical Details
 - Evaluate the resistance of SCU-equipped chips to all relevant attacks in a rigorous evaluation in accordance with the international standard ISO/IEC 15408.





Building security assurance schemes for roots of trust

