



TOSHIBA Introduction **~Industrial Control System Security~**

TOSHIBA

Toshiba Digital Solutions Corporation

Toshiba Asia Pacific (Thailand) Co., Ltd.

8 November, 2022

01

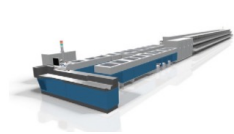
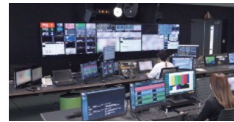
Introduction of Toshiba's business domain

Toshiba Group Business Domains

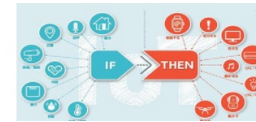
Energy Systems &



Infrastructure Systems & Solutions



Digital Solutions



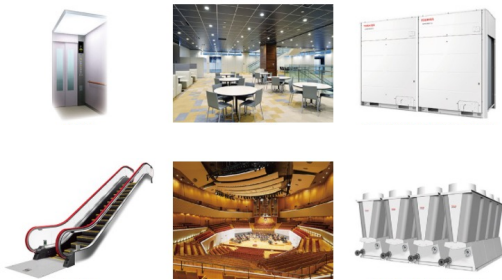
Battery Business



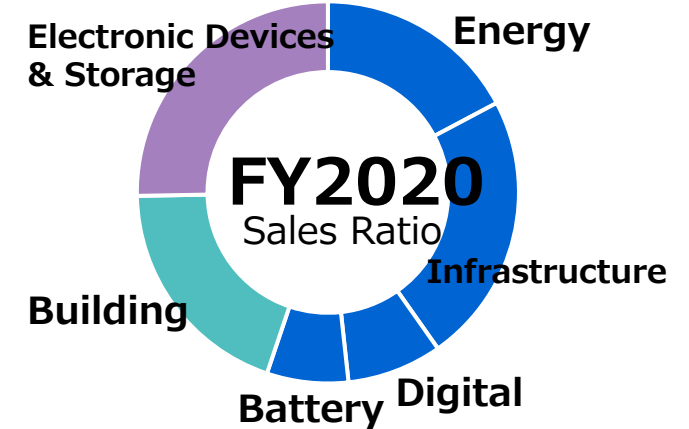
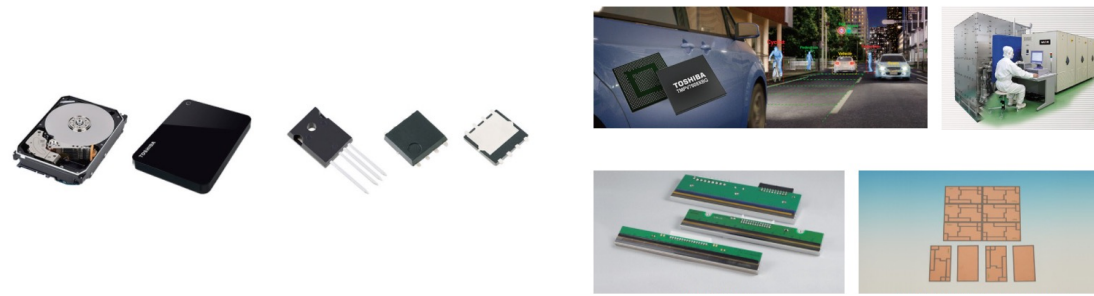
Retail & Printing



Building Solutions



Electronic Devices & Storage Solutions



02

Cyber Security Measures for OT Systems

Characteristics of IT systems and OT systems

Different characteristic between IT security and OT security

IT systems

Computers, Servers
General purpose products

DATA

- Enhance security measures
- Technical requirement
- Increase Security Level
- Confidentiality < Availability < Integrity
- Operations automation

OT systems

Industrial Control Systems
Control heat, Monitor systems
Customized systems

Operation of physical process

- Enhance adaptability
- Operation · Management
- Increase Maturity Level
- Security < Safety (HSE)
- Continue operating during



Risk is increasing for Operational Technology Security.

Business environment changes due to the advancement of DX

- **Increased connection between IT and OT**
- **Expanding external connections**

Increased opportunities for OT environments to Cyberattacks

Advancement of threat on OT systems

- **Change object from Political to Economic**

Threat to the OT is becoming more familiar and serious

Regulation or Guideline for OT systems

- **Supply chain risks in Europe, the U.S. and China tighter regulations/guidelines**

Shut out of the supply chain if security measures are not in place

TOSHIBA Industrial Control System Security Solution & Service

Provide security services from "design and defense" to "evaluation and verification" throughout the security lifecycle

01

Recognizing & Improving current status

Security assessment & Training service

Security assessment and training based on public standards and guidelines

Simple assessment

Compliant assessment

Detailed assessment

Education · Training

02

Maximizing protection

ICS security solution

IT/OT network separation data diode

OT network visualization and detection - OT-IDS

Legacy equipment remote connection - CYTHEMISTM

04

Minimizing impact

SIRT Service ※3 (security incident response/recovery)

Appropriate response and early recovery in cooperation with manufacturing and maintenance departments

Recovery support with an incident occurs

Log analysis

Vulnerability response

03

Early detection of risk

OT-SOC Service

Security operation monitoring based on cyber x physical knowledge

24/365 remote monitoring

Detailed alert report and cause analysis

Vulnerability survey periodic report

Evaluate/Verify

Design/Protect

Respond/Recover

Monitor/Detect

Toshiba realizes secure infrastructure operation through physical knowledge and OT system operation.

Physical knowledge + OT system operation



Security operations

Thank you!!



Contact e-mail
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https://asean-cbp.org/?page_id=918