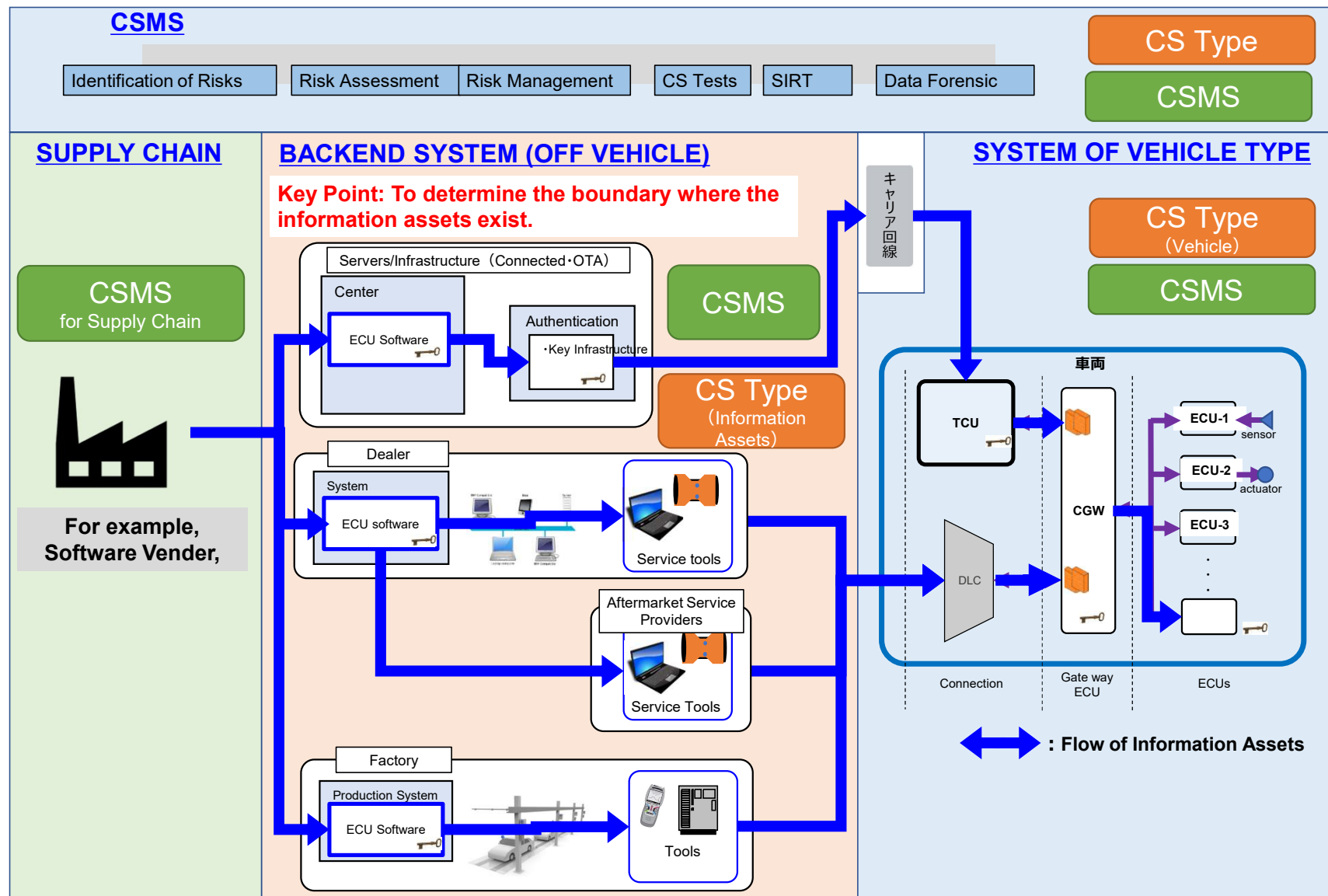# Input to the Workshop Regarding CS Type Approval
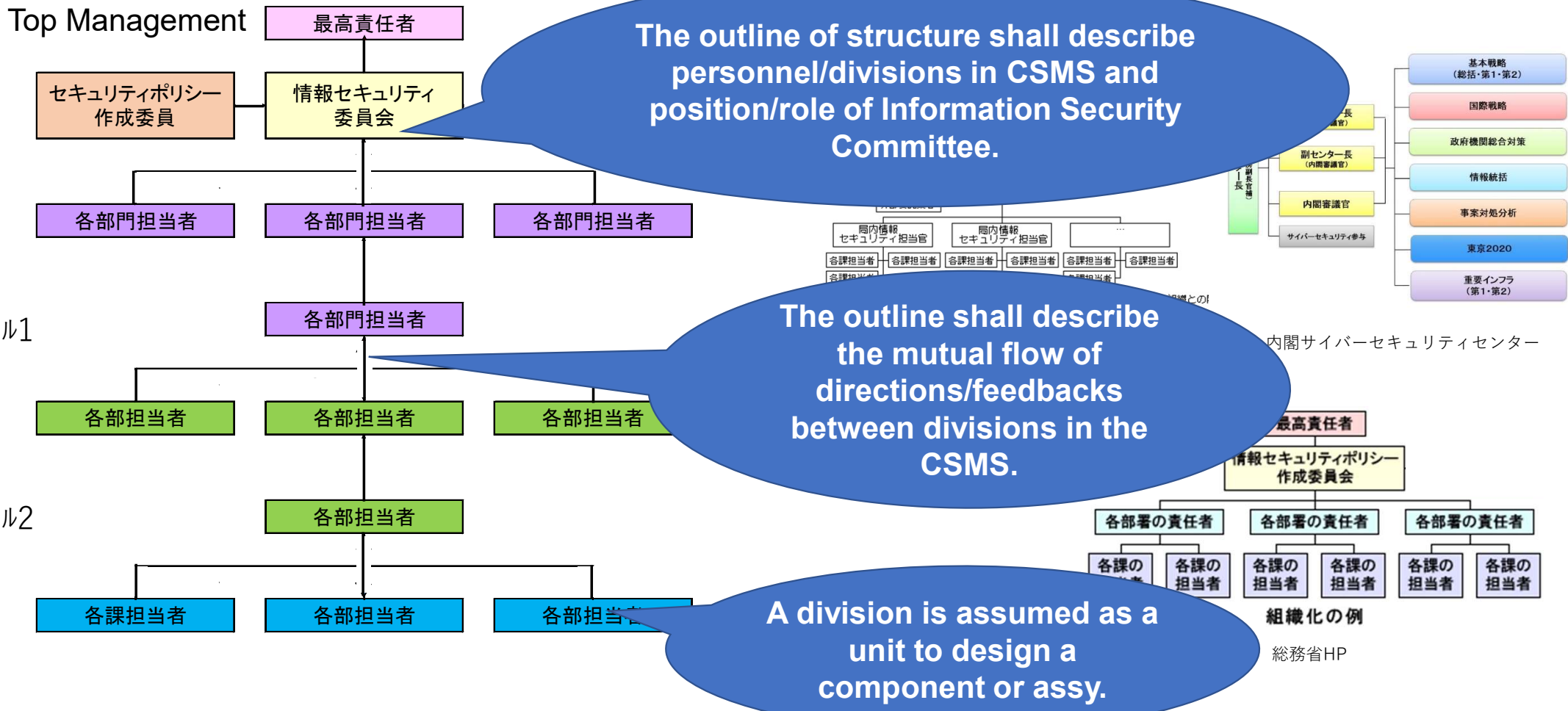
8th July 2021

Tetsuya Niikuni

NTSEL Cyber Security Type Approval Test Center

Confirmation of Boundary of CSMS in the Manufacturer's Organization

Example of Boundary to be Defined by Manufacturer

CSMS

Identification of Risks	Risk Assessment	Risk Management	CS Tests	SIRT	Data Forensic

CS Type

CSMS

SUPPLY CHAIN

BACKEND SYSTEM (OFF VEHICLE)

Key Point: To determine the boundary where the information assets exist.

SYSTEM OF VEHICLE TYPE

CS Type （Vehicle）

CSMS

CSMS for Supply Chain

キャリア回線

Servers/Infrastructure （Connected・OTA）

Center

ECU Software

Authentication
・Key Infrastructure

CSMS

CS Type （Information Assets）

車両

TCU

For example, Software Vender,

Dealer

System

ECU software

Service tools

DLC

CGW

ECU-1 sensor

ECU-2 actuator

ECU-3

Aftermarket Service Providers

Service Tools

Factory

Production System

ECU Software

Tools

Connection

Gate way ECU

ECUs

⟷ : **Flow of Information Assets**

Example of the Outline of CSMS Structure

Top Management

最高責任者

セキュリティポリシー作成委員

情報セキュリティ委員会

The outline of structure shall describe personnel/divisions in CSMS and position/role of Information Security Committee.

各部門担当者　各部門担当者　各部門担当者

レベル1　各部門担当者

The outline shall describe the mutual flow of directions/feedbacks between divisions in the CSMS.

各部担当者　各部担当者　各部担当者

レベル2　各部担当者

各課担当者　各部担当者　各部担当者

A division is assumed as a unit to design a component or assy.

内閣サイバーセキュリティセンター

基本戦略（総括・第1・第2）
国際戦略
政府機関総合対策
情報統括
事案対処分析
東京2020
重要インフラ（第1・第2）

副センター長（内閣審議官）
内閣審議官
サイバーセキュリティ参与

局内情報セキュリティ担当官　局内情報セキュリティ担当官
各課担当者　各課担当者　各課担当者　各課担当者　各課担当者　各課担当者

最高責任者
情報セキュリティポリシー作成委員会
各部署の責任者　各部署の責任者　各部署の責任者
各課の担当者　各課の担当者　各課の担当者　各課の担当者　各課の担当者　各課の担当者
組織化の例

総務省HP

The outline of CSMS structure shall describe the linkage and hierarchy of the organization from the top management to the each division.

4

Assessment of the Manufacturer's Internal Rule Books

Manufacturer should have in place processes ensuring that evaluation of every vehicle type is conducted according to the same scheme. Such procedures should be documented. Assessment of documents provided by manufacturer is the fundamental task for the verification of CSMS.

The structure of rule book
➢ High level documents: Security Policy etc.
➢ Middle level documents: Security Standards etc.
➢ Low level documents: Security Procedure Rule book etc.
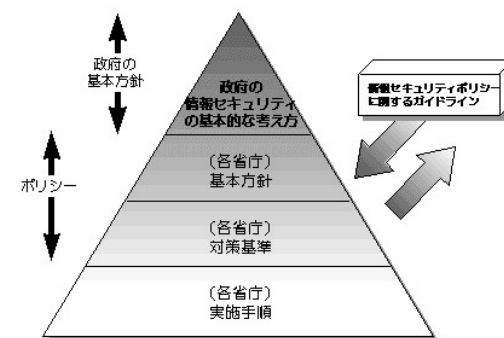
図2：ポリシーの位置づけ

- The hierarchy of the structure of security relevant documents shall be described.
- Security Design Rule Book shall describes concrete protocols to respect the secure design, such as secure code, which is understandable for personnel in divisions.
- The division to administrate (store, revise and publish) such rule books shall be defined.

Tests for Vehicle Type Approval

- The purpose of test for type approval should be distinguished from the tests by manufacturers.

- The aim of any security measures will be to reduce the risks. Testing should support justification for the security measures implemented.

- Therefore, the purpose of tests for vehicle type approval is not intended to discover another vulnerability. Tests to identify vulnerabilities should be carried out by manufacturer for design.