SECURITY

Rule

Log

Log

Connected Vehicle Security
Cyber Security System for Automobiles

Benefits :

Vehicle Protection

- **Provide Security in Connected Vehicle Era**
  - Local Security ECU protects in-vehicle network.
  - Malicious control commands are ruled out.

Monitoring Cloud

- **Cope with Ever-evolving Threats**
  - Cloud system collects and records vehicle security status.
  - AI engine identifies suspicious events from large amount of log.

Security Lifecycle

Recovery — Monitor — Response — Detection

- **Establish Security Lifecycle for automobiles**
  - Critical system must be maintained secure throughout its lifecycle.
  - Employing detection & recovery functionality is widely encouraged. [*1, *2]
  - Local protection and remote monitoring maintain security level.
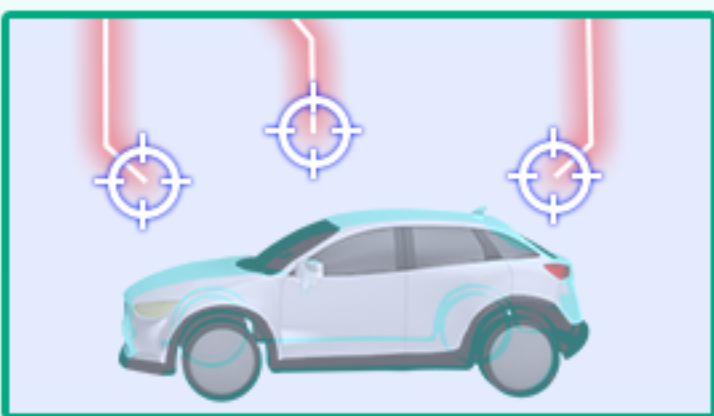
[*1] Cybersecurity Best Practices for Modern Vehicles, NHTSA
[*2] NIST Cybersecurity Framework

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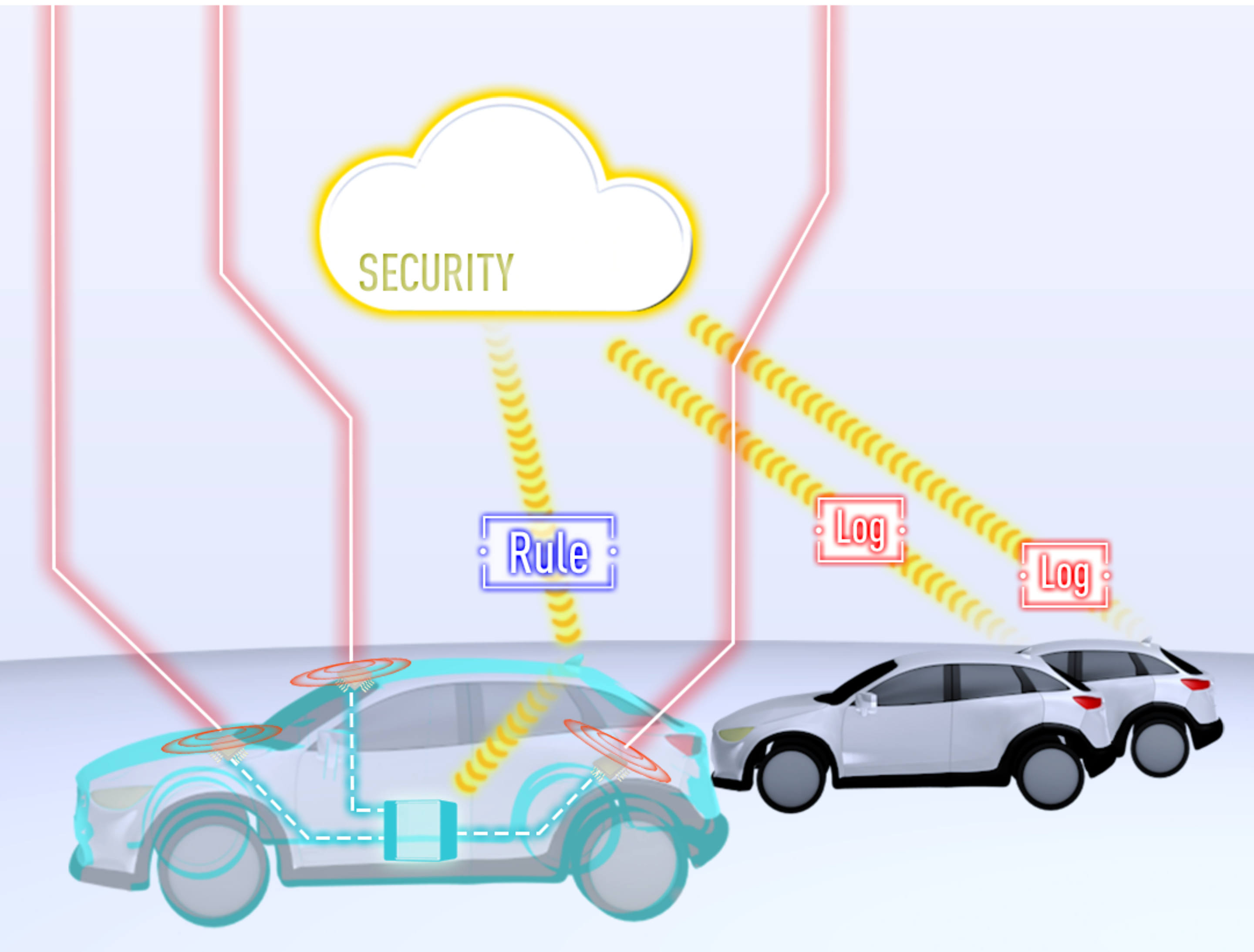
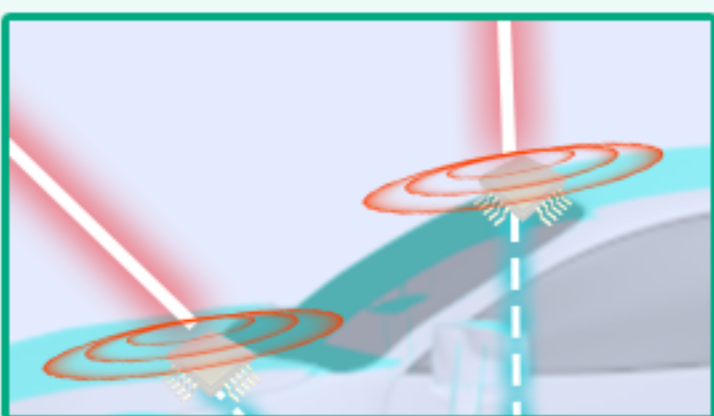# Connected Vehicle Security

Cyber Security System for Automobiles

Technical Advantage :

Holistic in-vehicle IDS
- CAN, Ethernet and IVI host can be monitored.
- Lightweight and accurate in embedded system.

IVI | In-Vehicle Infotainment system

Elimination of malicious messages
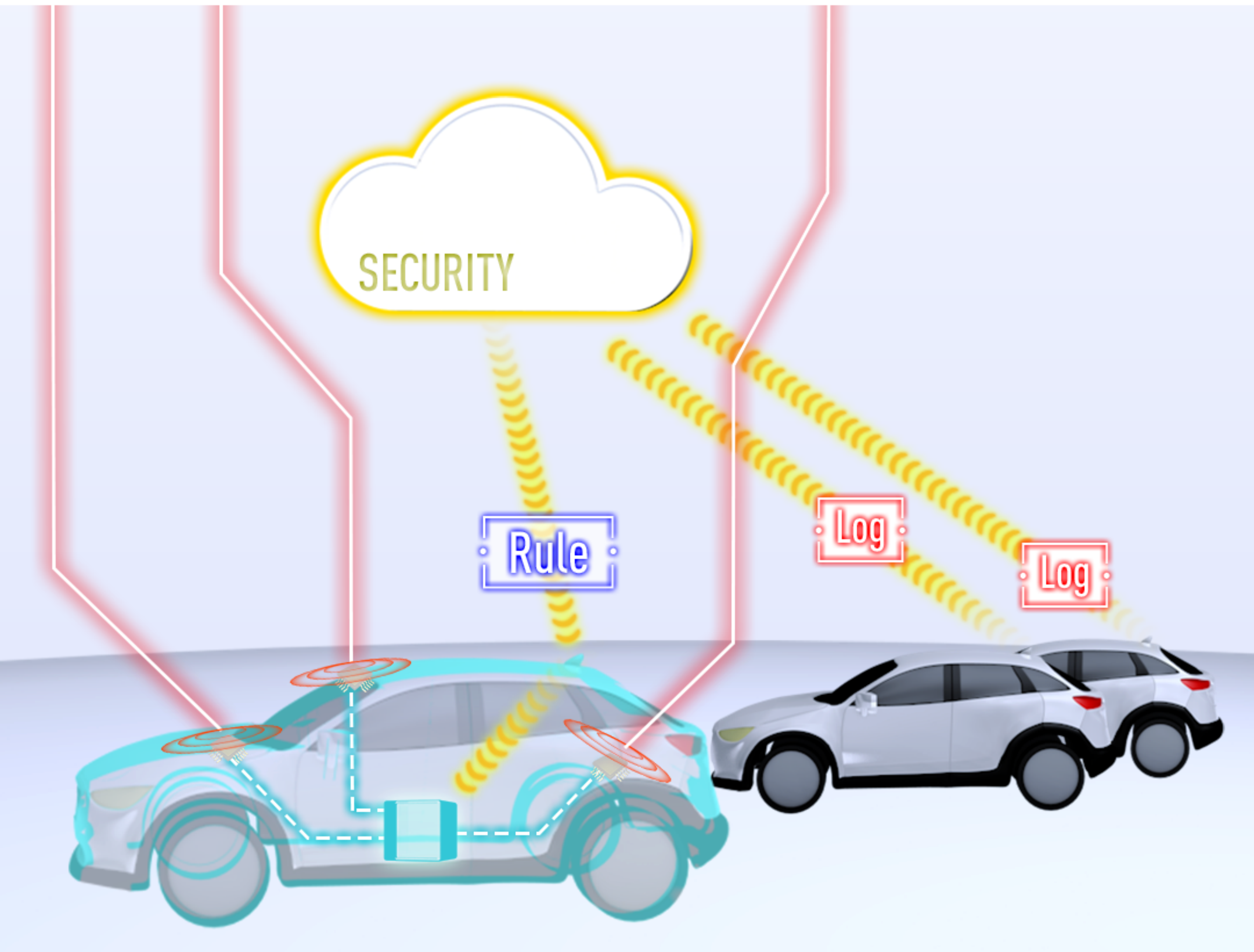- Drivers can keep control of automobiles.

Remote security management system
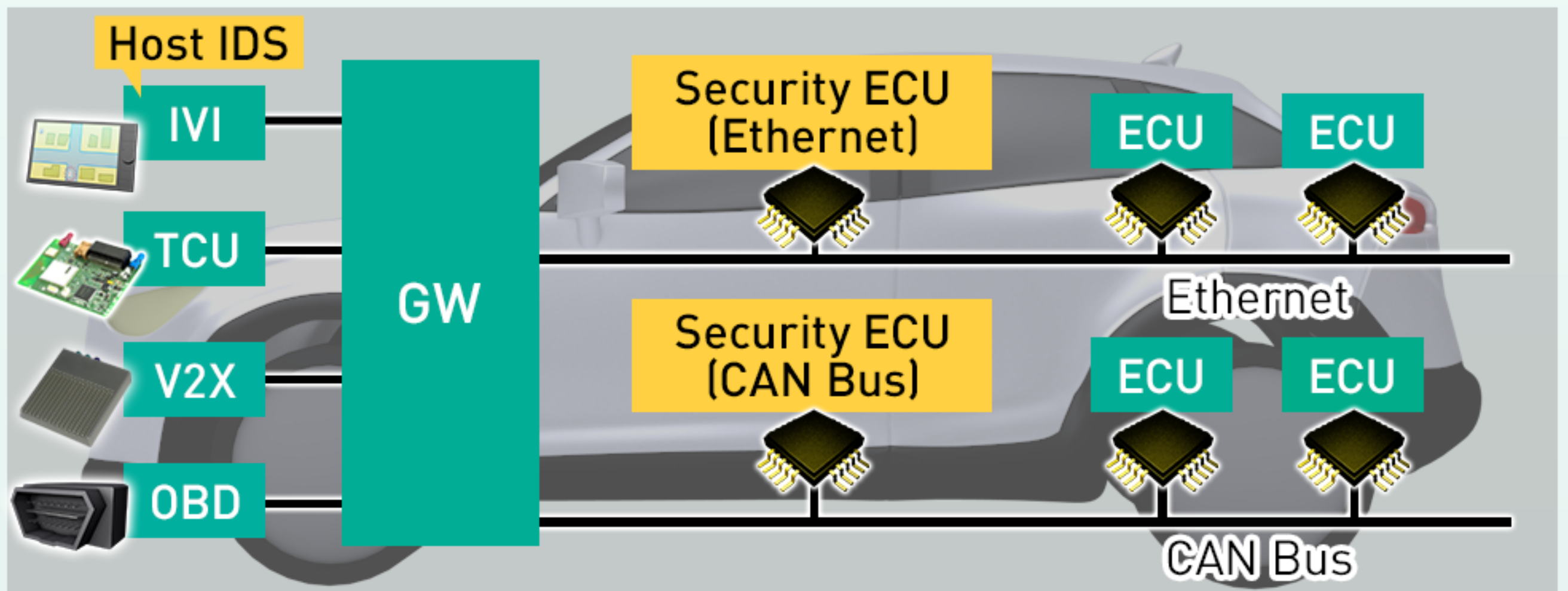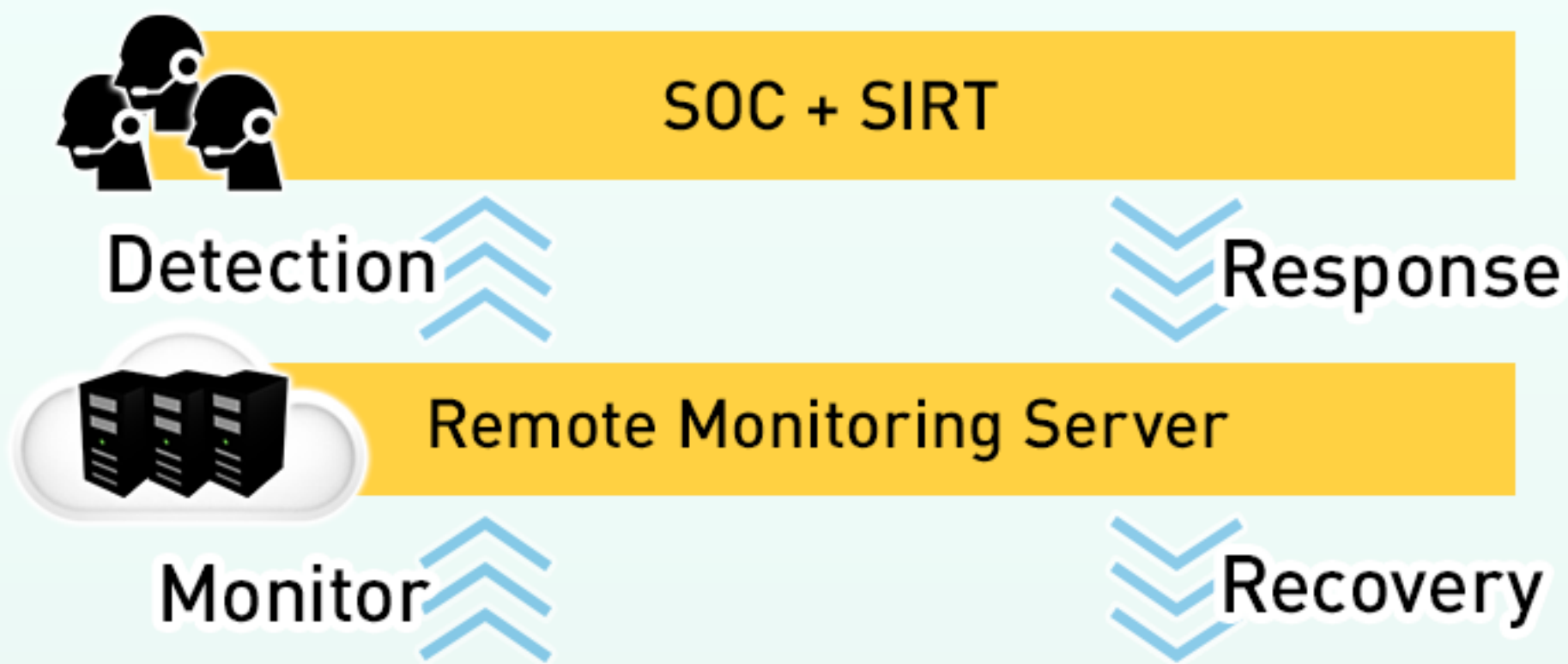- Security of fleets can be remotely monitored.

Reliable security experts
- Deep knowledge in both security and automobiles.

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Application :

SOC + SIRT

Detection   Response

Remote Monitoring Server

Monitor   Recovery

Host IDS

IVI

TCU

V2X

OBD

GW

Security ECU
(Ethernet)

Security ECU
(CAN Bus)

ECU   ECU

Ethernet

ECU   ECU

CAN Bus

SOC | Security Operation Center
SIRT | Security Incident Response Team