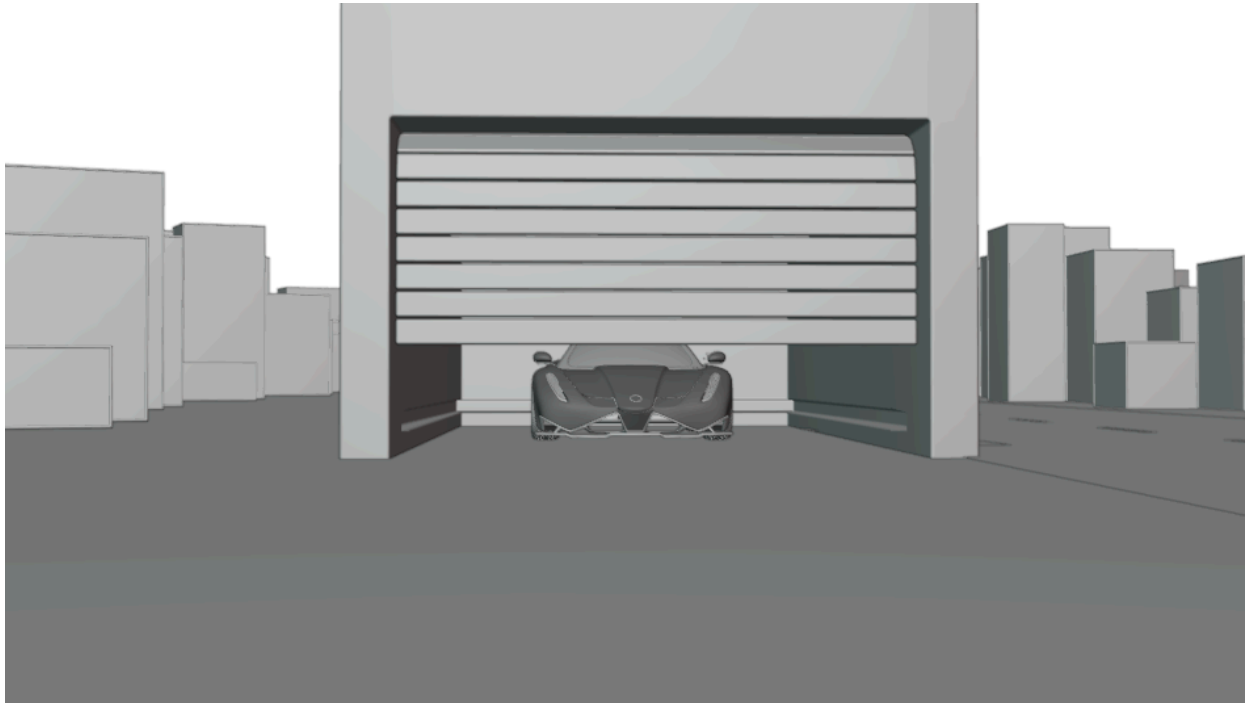


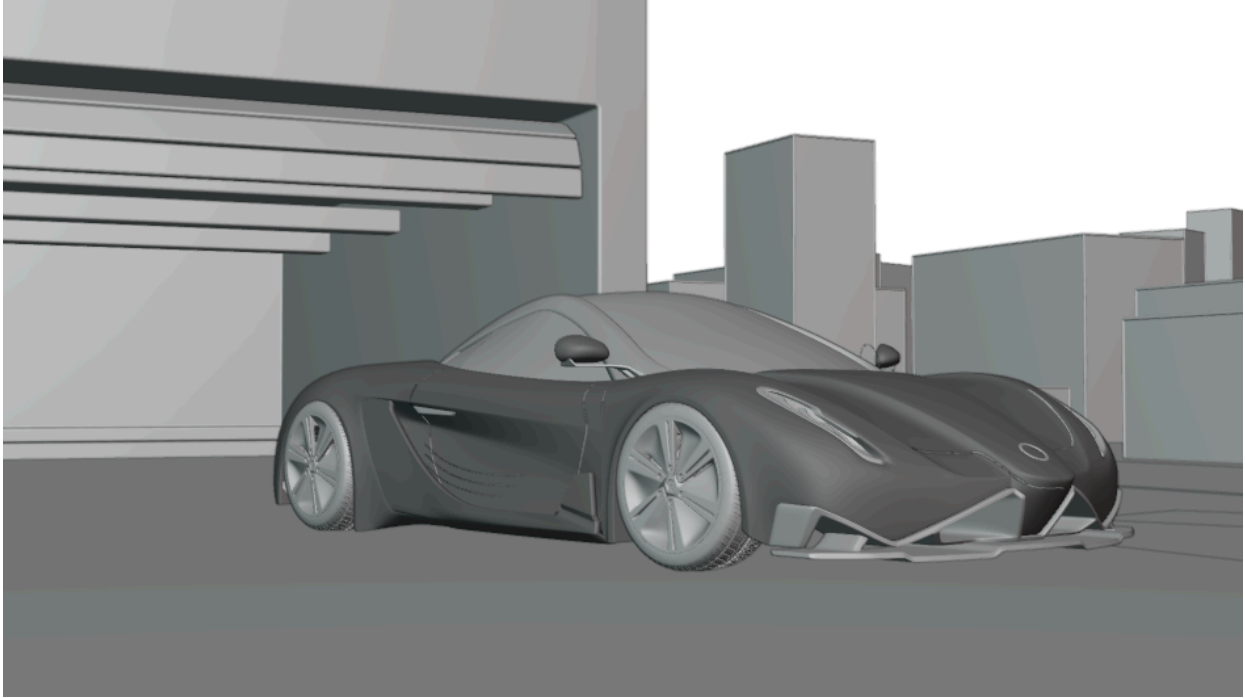
# CARALERT storyboard

## Introduction- Security

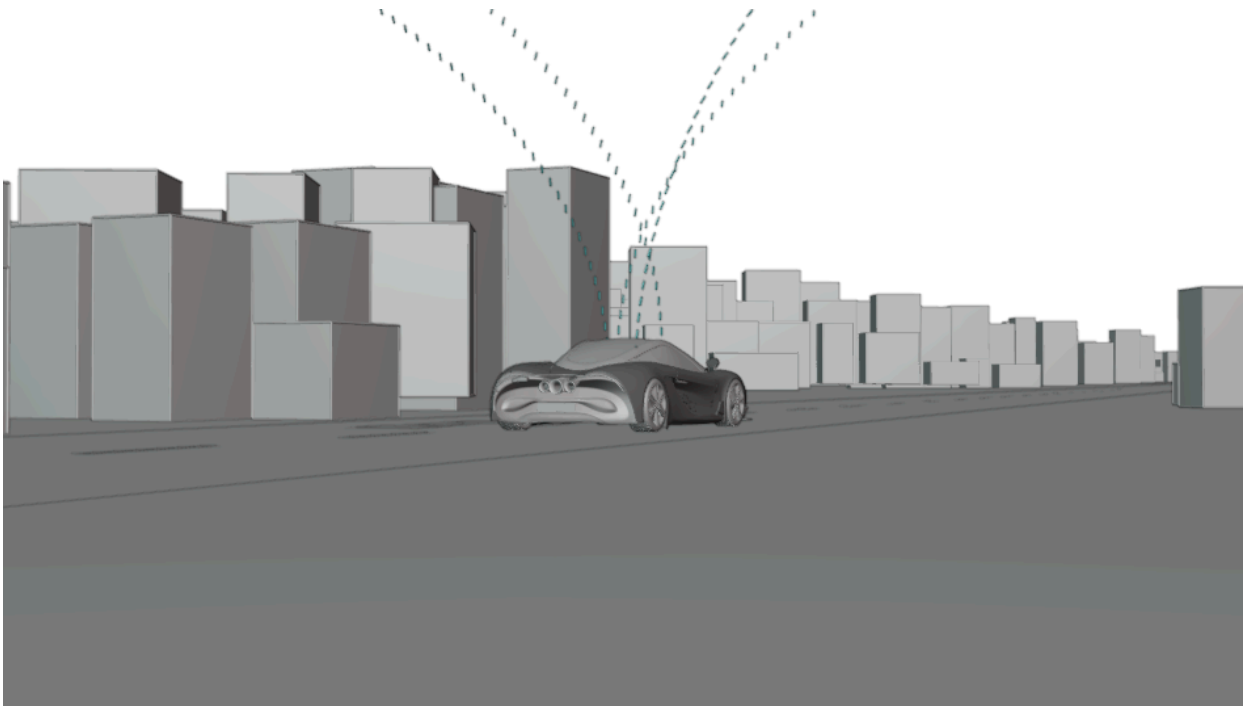
[Music starts playing, garage door opens, our car is revealed]



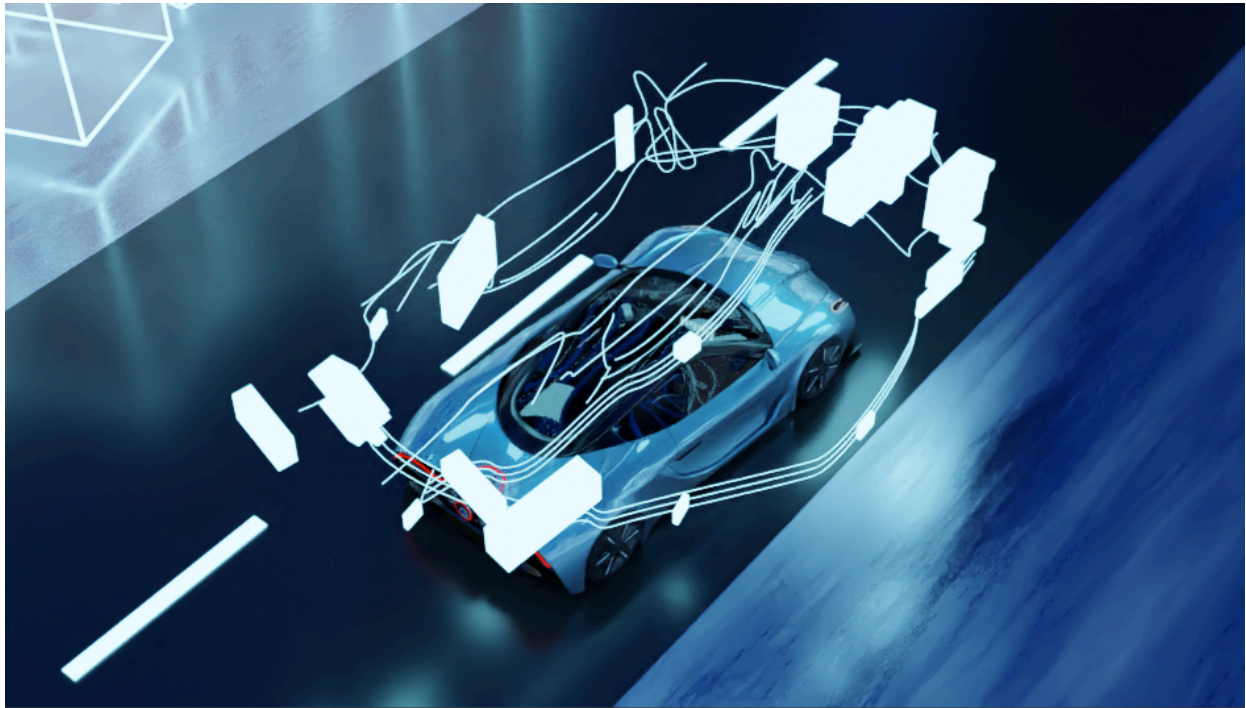
Narration: Today's cars are essentially computers on wheels



[As the car drives out of the garage in a futuristic city, communication signals of different sorts interact with the vehicle]



With up to 150 ECUs,



[a complex network of ECU's is shown and they fly into the car]

hundreds of millions of lines of code,



[code is presented in several dynamic windows, different programming languages, one by one the flow into the car as well]



[Code is compiled and enters the car]



and many interfaces-

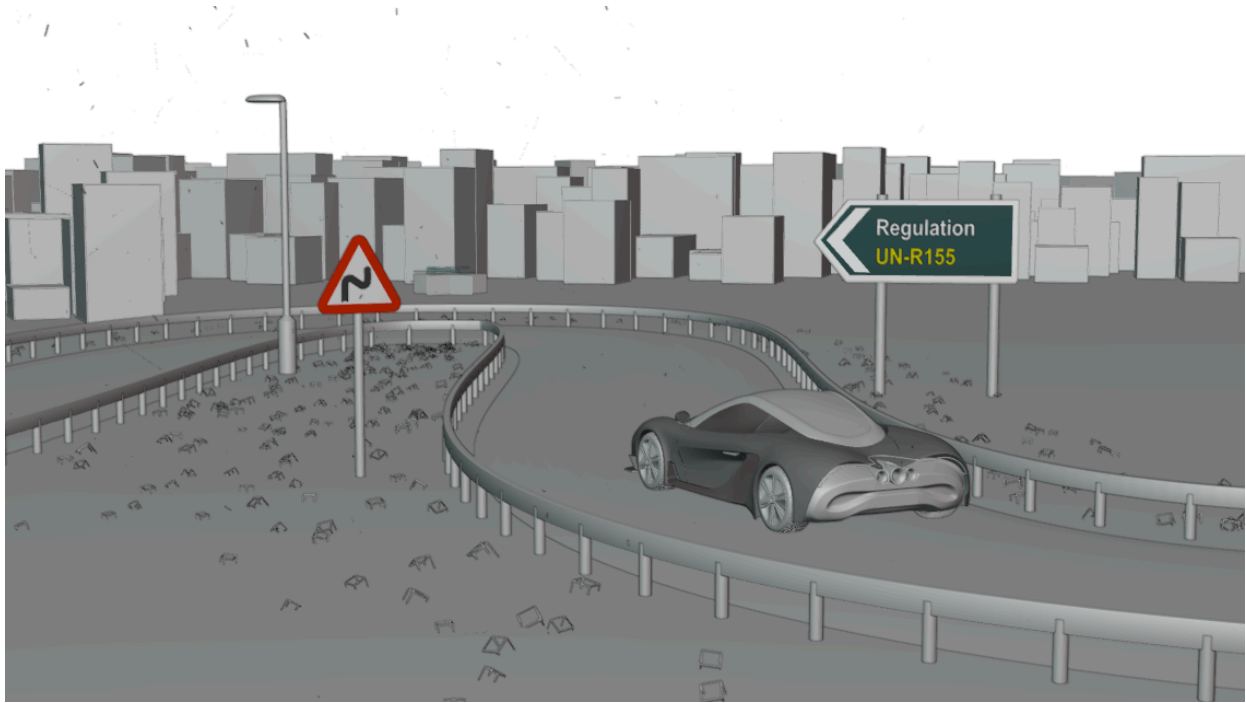


vehicles are becoming prime targets for cyberattacks.

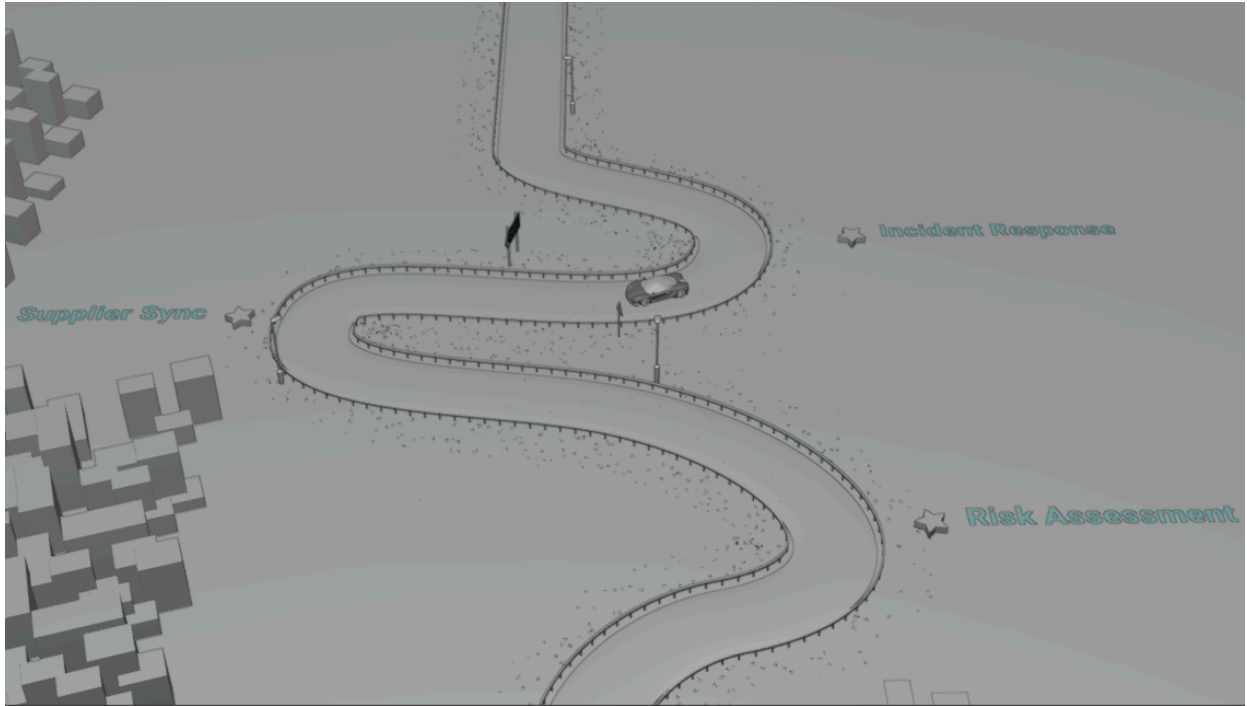


# Introduction- Regulation

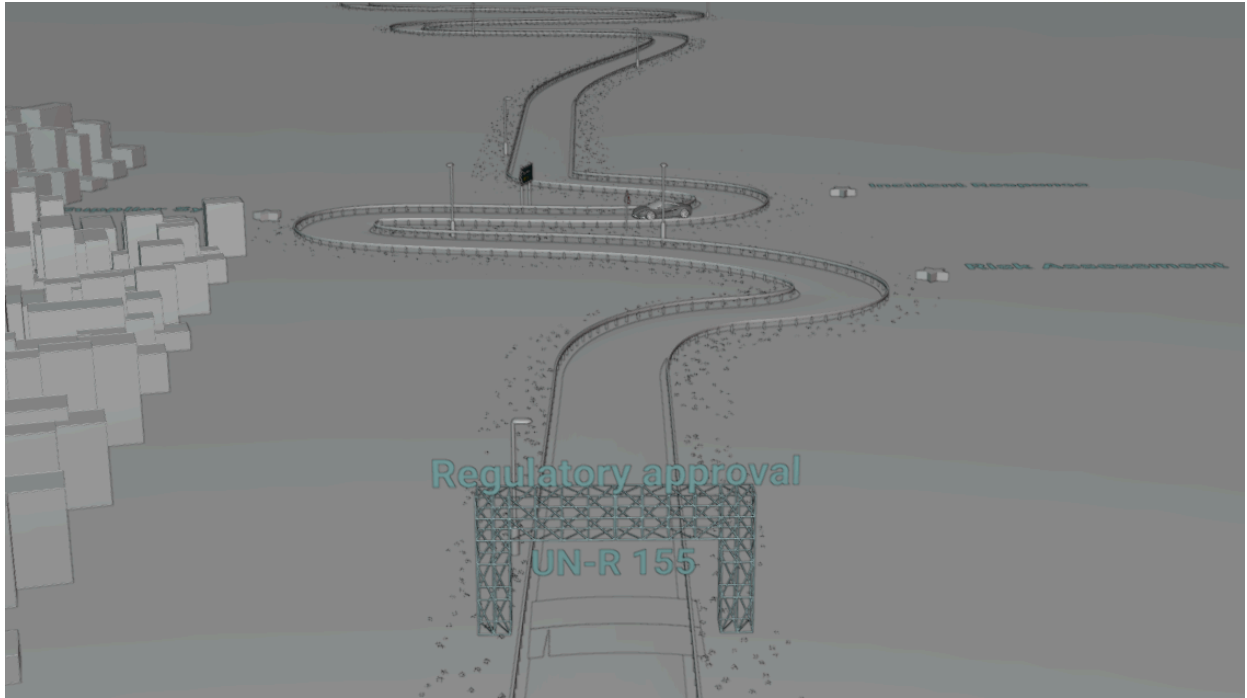
Navigating the regulatory challenge of UN-R155,



automotive manufacturers face the complex task of managing countless components



and software from diverse suppliers



Note: Finish line should be clear that continues after the finish line, camera panning, sign says production

# Solution- CarAlert

Car Alert by CYMOTIVE is engineered to help manufacturers and suppliers

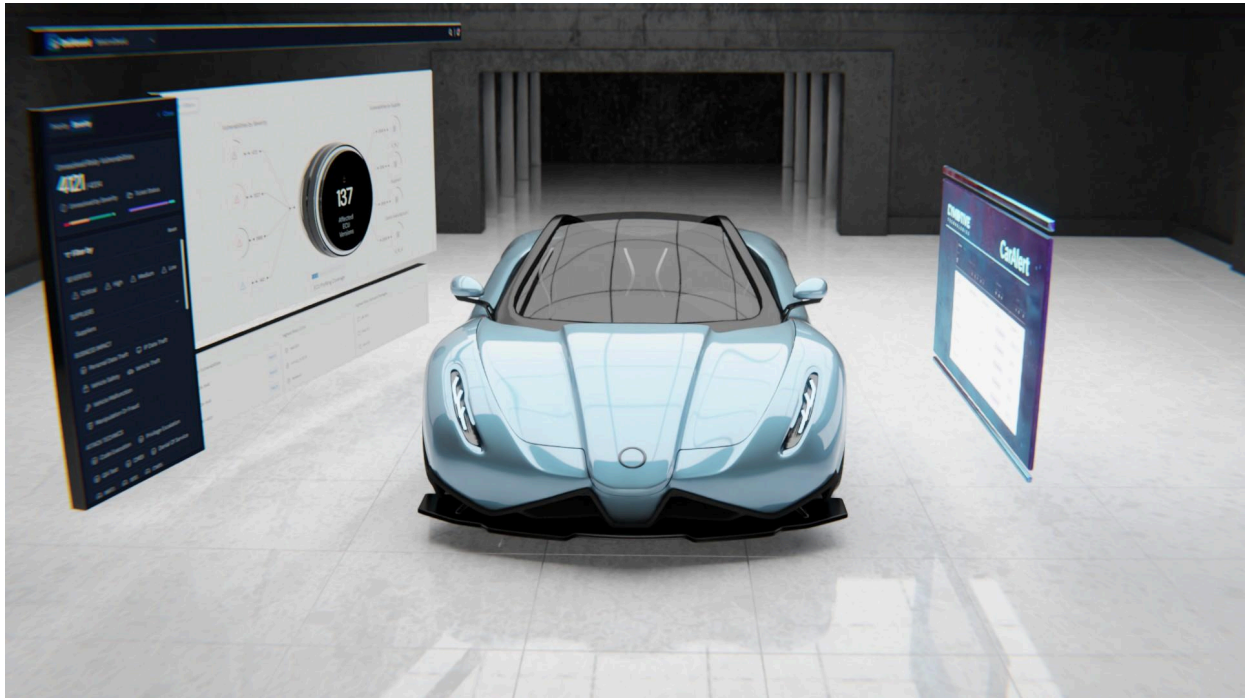


[Cloth reveal of the software] note- faster reveal needed



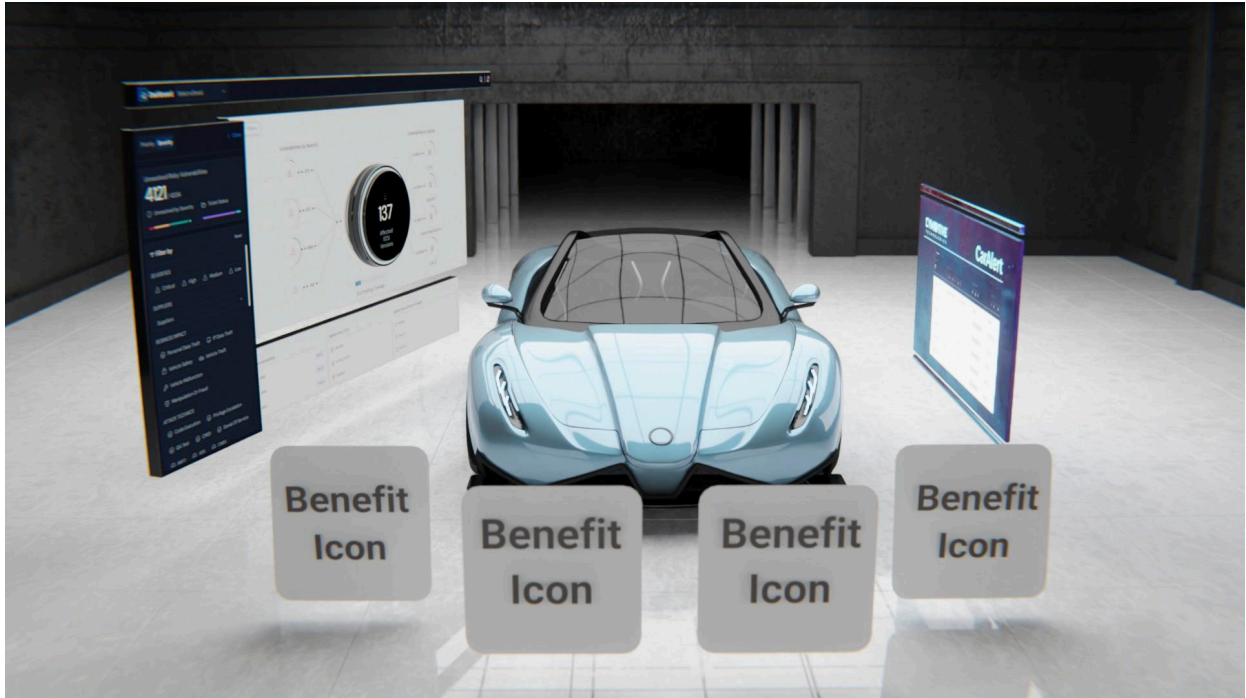


[the car enters the service zone]



[we can show multiple dashboards and informative screens]

enhance vehicle security at every level, reduce development time, gain trust with customers, and protect cars from digital threats.



[The icons appear one by one in sync with the narration]

Car Alert begins with Asset Identification including management of assets, bill of materials, vehicles, and ECUs.





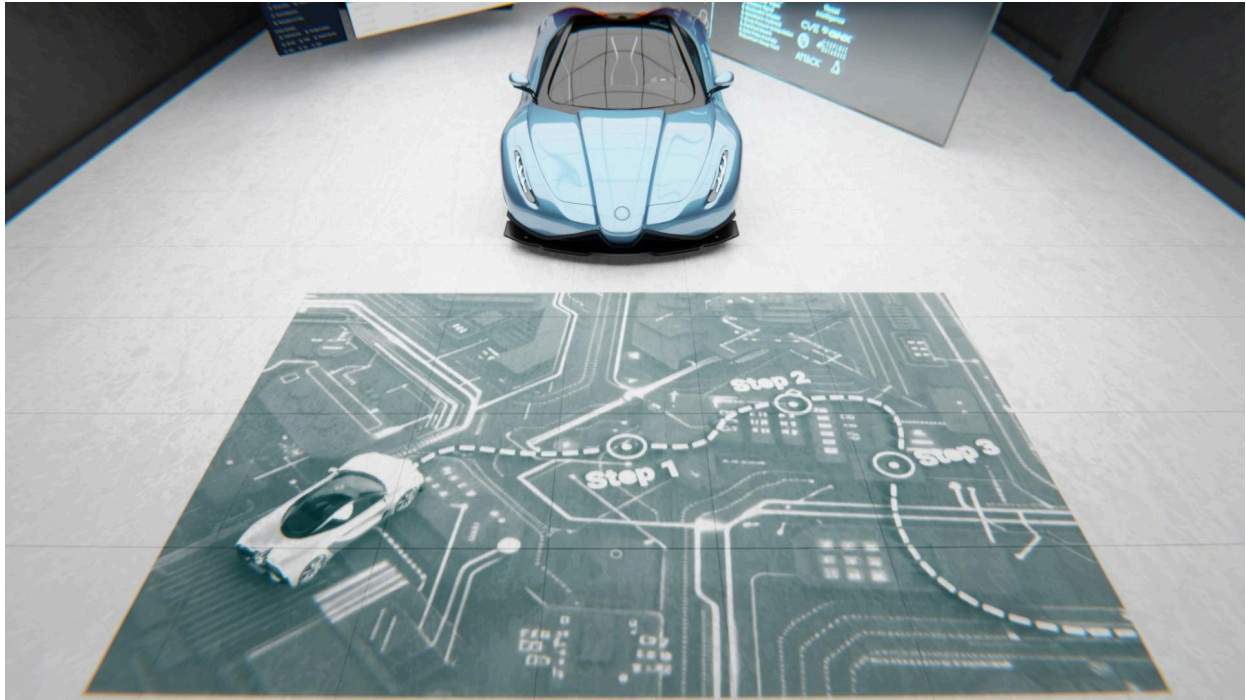
[As profiling takes place, assets are colored by their threat level- red/orange/green. Some of the issues are resolved and turn green, some of the red turns into orange]

Automatically mapping all the vulnerabilities, exploits and threats to the ECUs and vehicles CarAlert prioritizes them according to their potential impact and damage,



[Threat icons appear, and a list of threats is assembled] note-replace the icons (threat intelligence) with more threats (a long list is provided in the end of the document)

and recommends the best path for risk minimization.



[Hologram screen shows a navigation-style interface with a clear path to fix vulnerabilities]

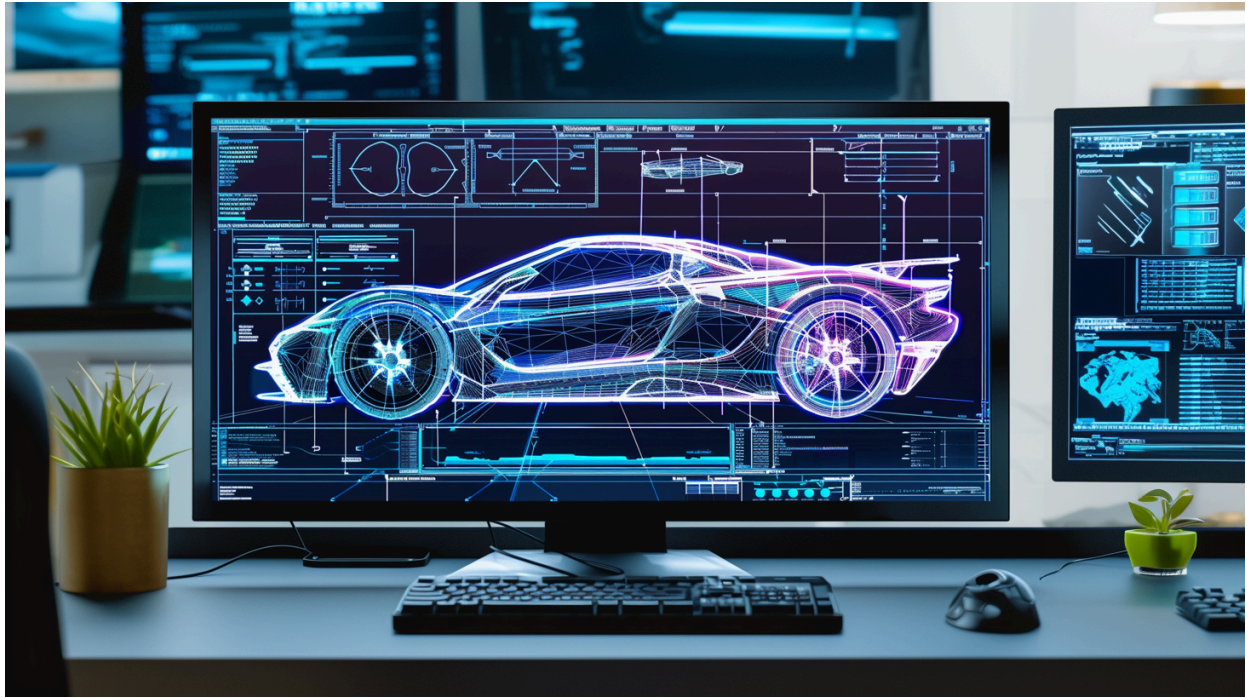
At any time, you can track the process and focus only on the critical risks,



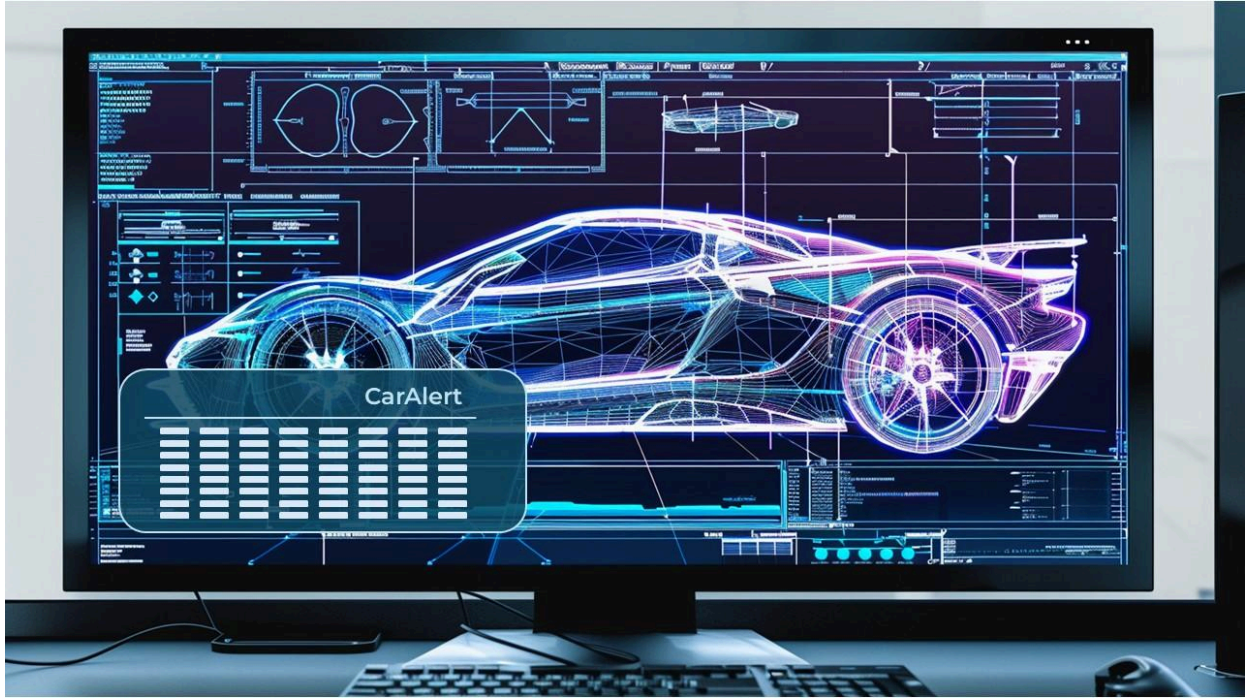
[a fresh angle and a new screen with the tickets interface, fully animated]

## Closing Remarks

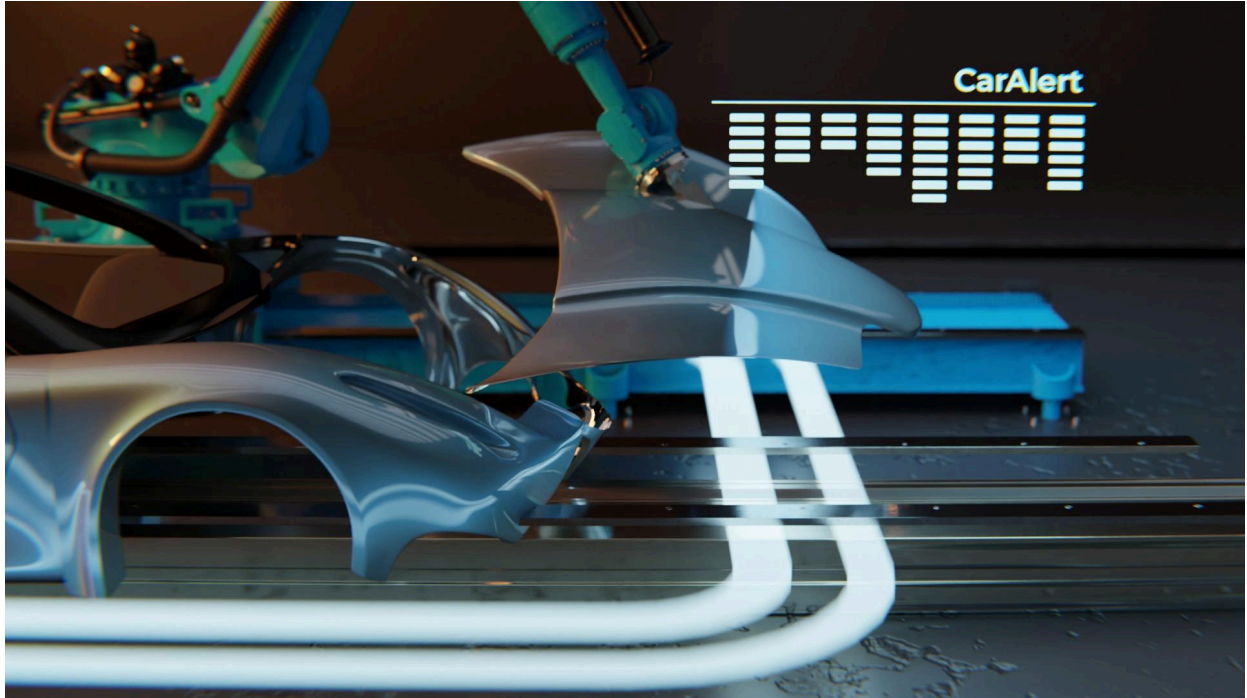
From design and development through post-production,



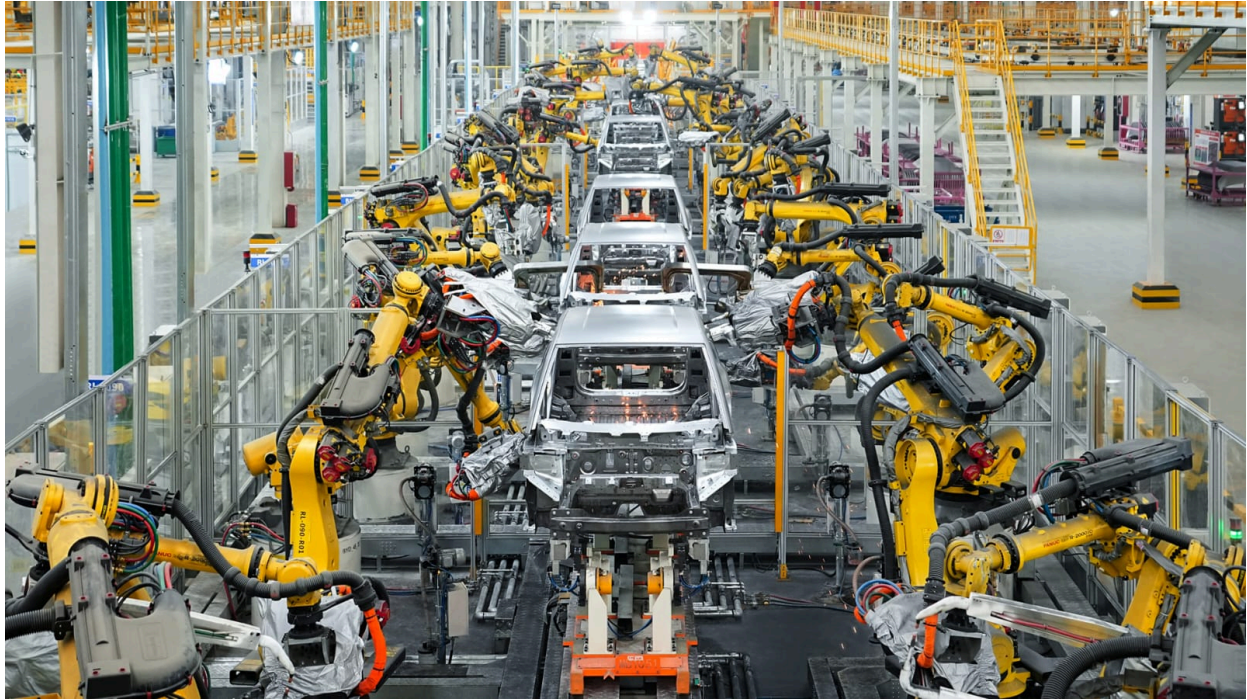
[Car schematics on a screen in contemporary office, CarAlert 'CT Scan' is performed on the schematics]



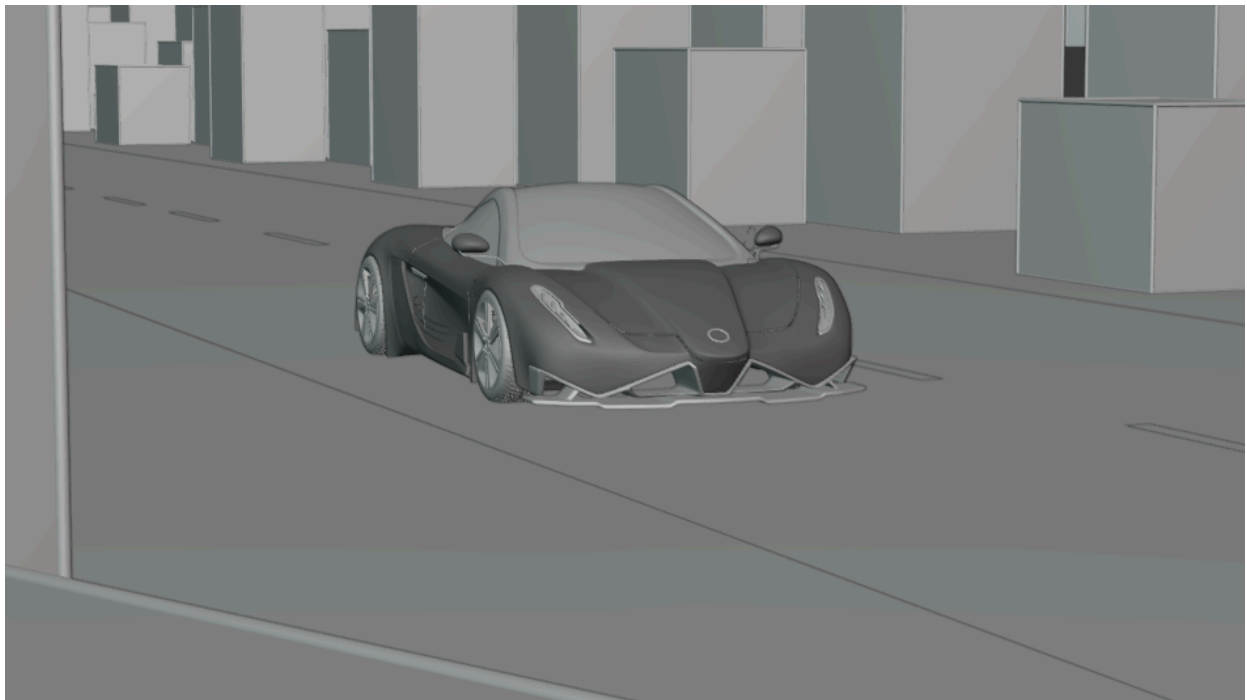
[The CarAlert visual cue provides a quick report screen]



[The car is 'scanned' again by CarAlert while in production]

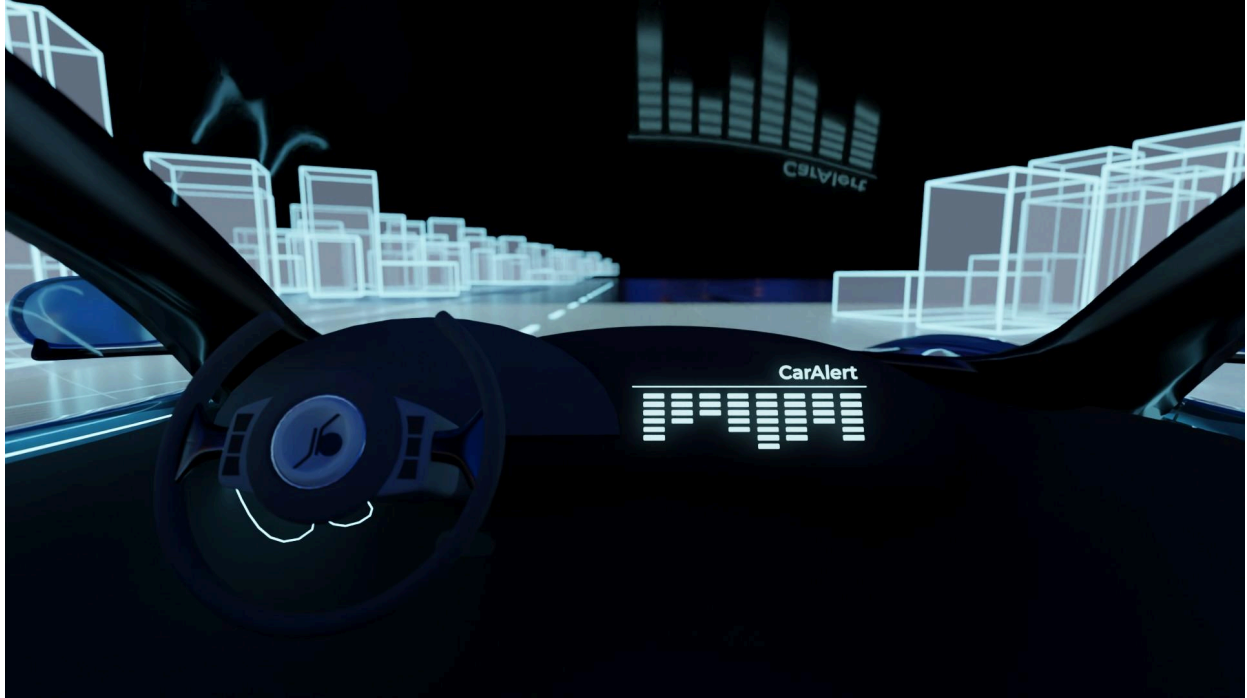


Car Alert's automated full lifecycle coverage continuously monitors and safeguards your vehicle long after it leaves the production line.



[The car is driving the same city as the introduction shot, visual representation of over the air scan and update]





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Full list of threats: (techniques)

Supply Chain Compromise  
Valid Accounts  
Software Deployment Tools  
Boot or Logon Autostart Execution  
Boot or Logon Initialization Scripts  
Create or Modify System Process  
Event Triggered Execution: .bash\_profile and .bashrc  
Hijack Execution Flow  
Server Software Component  
Valid Accounts  
Abuse Elevation Control Mechanism  
Access Token Manipulation  
Boot or Logon Autostart Execution  
Boot or Logon Initialization Scripts  
Create or Modify System Process  
Escape to Host  
Event Triggered Execution: .bash\_profile and .bashrc  
Hijack Execution Flow  
Process Injection  
Valid Accounts  
Abuse Elevation Control Mechanism  
Access Token Manipulation  
Hijack Execution Flow  
Impair Defenses  
Indicator Removal on Host  
Masquerading  
Modify Registry  
Process Injection  
Rootkit  
Subvert Trust Controls  
Use Alternate Authentication Material  
Valid Accounts  
Man-in-the-Middle  
Brute Force  
Credentials from Password Stores  
Network Sniffing  
Steal or Forge Kerberos Tickets  
Unsecured Credentials  
Account Discovery  
Browser Bookmark Discovery  
File and Directory Discovery  
Network Service Scanning

Network Share Discovery  
Network Sniffing  
Peripheral Device Discovery  
Permission Groups Discovery  
Process Discovery  
Remote System Discovery  
System Information Discovery  
System Network Configuration Discovery  
System Owner/User Discovery  
System Service Discovery  
System Time Discovery  
Remote Services  
Software Deployment Tools  
Taint shared content  
Use Alternate Authentication Material  
Man-in-the-Middle  
Audio Capture  
Automated Collection  
Man in the Browser  
Clipboard Data  
Email Collection  
Screen Capture  
Ingress Tool Transfer  
Account Access Removal  
Endpoint Denial of Service  
Firmware Corruption  
Network Denial of Service