Cisco Video Technologies Israel Ltd.

Line of Business
Security Products and Services

Established
1988

Leading Executives
Mr. Rafi Kesten
General Manager

Mr. Yossi Tsuria
Security Lead

Modern automobiles are no longer simple mechanical devices. Today's cars are monitored and controlled by tens of digital computers (ECUs) coordinated by internal networks. This transformation has introduced a wide variety of new risks. Researchers have shown that a hacker can use a cell phone to unlock a car's doors, start the engine, and drive away with the car. Using a car's own Bluetooth and cell phone connections, researchers introduced a Trojan horse that gave them total control of the car, including windows, radio, steering, and brakes.

NDS has been in the security business since 1988. Acquired by Cisco Systems Inc. in 2012, NDS/Cisco is the worldwide leader in security for pay

ways to decrease the cost of implementing security without compromising quality. NDS/Cisco offers automobile manufacturers the following products and services:

Technical Security Services
- Threat analysis
- Security requirements
- Security review
- Penetration testing and vulnerability analysis
- Software hardening
- Secure one-time programmable (OTP) memory

Intelligence Services
- Tracking, combatting, and prosecuting hackers and co-opting their expertise to benefit our customers.

TV. Its technology is deployed in 170 million devices around the world.

Securing Embedded Devices

NDS/Cisco has been securing embedded devices for more than twenty-five years. In 2010, NDS entered the field of automotive security and has been working closely with one of the world's top three OEM manufacturers to upgrade its onboard security architecture. From our experience, we know that poor software practices make it easy to reverse engineer applications and find the software holes that allow tampering. Our expertise extends to secure wireless patching (secure software download), which our customers execute regularly.

Security Products and Services

NDS/Cisco employs industry-leading cryptographers and security experts, who are constantly researching

Products
- Secure wireless patching (over-the-air SW download)
- Secure bootloader
- Digital rights management (DRM) for vehicles
- V2X security library
- Hardware security module (HSM)
- Secure hardware extension (SHE++)
- Secure gateway
- Cryptographic library

ZERO Piracy

With more than ten years of ZERO piracy, NDS/Cisco technology is poised to revolutionize and simplify the process of updating ECU software. This process is essential in defeating various attacks and can prevent massive recalls when critical bugs are discovered.

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