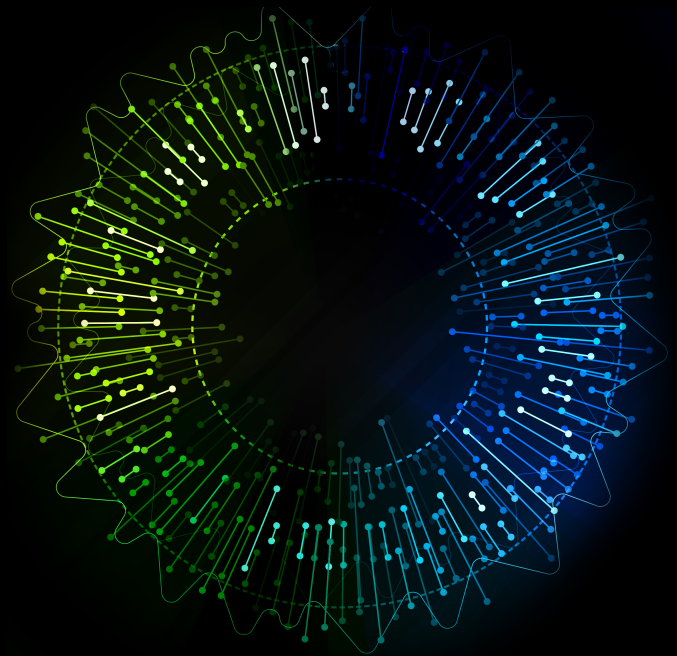




Deloitte Cyber: IoT and healthcare services



As the IOT ecosystems expand into all sectors and industries it becomes paramount to perform strategic and tactical tests and reviews of critical devices, applications and their implementations. The focus of penetration testing - on one side - is the security capabilities of the given technology and - on the other side - the secure implementation of the given product functionalities. Our approach allows the combination of deep technical analysis to identify design and software vulnerabilities with the security status of the implementation in real-life scenarios. Besides the technical results of the analysis, we include a risk view based on a set of application scenarios.

Service Structure:

The security testing services are a set of best industry proven methodologies to identify potential weaknesses and ensure a steady level of resilience against potential attacks:



Architecture Design and Review



Penetration Testing



Scenario Analysis and Risk Evaluation



Trainings and expert labs

We have created a testing roadmap for specific industries in alignment with regulatory requirements and security good practices

Our industry testing expertise in Automotive, Production Plants, Telcos and Healthcare allow a specific testing approach fitting the industry requirements and typical implementation scenarios.



Our specific services:

Our services for the IoT/Connected Devices/Healthcare industry are the following:

Specific Penetration testing services for the complete IoT/Connected Device ecosystem

- Device level (hardware/embedded systems) penetration testing:
- Application level penetration testing
- Infrastructure/Cloud level penetration testing

Training services:

- Hardware/connected device penetration testing training, for:
 - IoT/Connected Device developers
 - Incident responders
 - Cybersecurity responsible

Security architecture reviews

Targets:

Any industry player who develops or use a connected device, for example:

- Healthcare industry:
 - Connected device developers (e.g., from smart personal mobile healthcare devices till complex imaging systems)
 - Healthcare software developers
 - Healthcare connected device users (e.g., Hospitals)
- IoT/Smart device developers (e.g., from household appliances until construction tool developers)
- Telecommunication providers
- Utility companies (Smart meter systems)

Our services for the Automotive industry are the following:

Automotive Penetration testing services for the complete vehicle ecosystem

- ECU level (hardware/embedded systems) penetration testing:
- Automotive interface level penetration testing
- Functionality testing
- Complete vehicle penetration testing
- Application level penetration testing
- Infrastructure/Cloud level penetration testing

Training services:

- Automotive penetration testing training, for:
 - Incident responders
 - Cybersecurity responsible
- Hardware/connected device penetration testing training, for:
 - IoT/Connected Device developers
 - Incident responders
 - Cybersecurity responsible



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