UL Cybersecurity Assurance Program (CAP)

- Standards-based program
- Evaluate cybersecurity posture of software in network-connectable products
- Provide a reasonable level of confidence in the absence of vulnerabilities and software weaknesses and the presence of appropriate risk controls
Client Needs Vary

WHAT WE DO FOR OUR CLIENTS

01 ADVISE
- Filter noise
- GAP assessments
- Help quantify ROI and understand risks to safety

02 EVALUATE
- Product security assessments
- Preparation for certification
- Product and systems qualification

03 CERTIFY
- Differentiate early adopters
- Validate ROI
- Brand reputation

Test and Certify Products and Systems

Manufacturer’s Cybersecurity Maturity
The Solution

• Foundation in industry best practices

• Focus on common themes applicable across multiple industries

• Risk-based / Not prescriptive

• Industry achievable

• Cross-industry applicability
Products & Systems Have 2 Bill of Materials

**Hardware BILL OF MATERIALS (BOM)**

**Software BILL OF MATERIALS (SBOM)**

- **Customers**
  - Internal
  - General Release

- **Developers**
  - Internal
  - External

- **Externally Developed Custom Software**
- **Internally Developed Software**
- **Commercially off-the-shelf Components**
- **Open-Source Components**
UL CAP Product Assessment Criteria

**STRUCTURED PENETRATION TESTING**

- **Product Assessment**
  - Software Composition Analysis
  - Fuzzing
  - Static Code Analysis
  - Security Controls

- **Risk Management**
  - Risk Management Process
Understanding Security Risks Using Risk Management

• Train a structured approach that enables you to identify, quantify, and address the security risks associated with an device, product or system.
Key Takeaways

Network-Connectable Products & Systems

- Automotive
- Lighting
- Appliances
- Smart Home
- HVAC
- Building Automation
- Alarm Systems
- Smart Meters
- Medical Devices
- Fire Systems
- Industrial Control Systems
- IoT

UL CAP Services

Risk Management
- Known Vulnerabilities
- Fuzz Testing
- Code & Binary Analysis
- Access Control & Authentication
- Cryptography
- Remote Communication
- Software Updates
- Structured Penetration Testing

Training Services

Advisory Services

Review Services

Your Report and/or Certification

- Test Report
- Certificate

Key Takeaways:
- Risk Mitigation
- Innovation
- Competitive Advantage