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Cybersecurity certification for IoT devices

Safeguarding IoT devices from cybersecurity threats

Overview

As the number and diversity of Internet of Things (IoT) devices continue to grow rapidly, assuring the security of these devices is of paramount importance.

Through the Ericsson Device and Application Verification (EDAV) cybersecurity program Ericsson offers comprehensive testing to help safeguard IoT devices from growing cybersecurity threats enabling our customers to build with confidence more secure wireless IoT ecosystems.

Ericsson provides cybersecurity testing services per the Cellular Telecommunications Industry Association (CTIA) approved test plan and requirements. Ericsson is currently the only network equipment accredited as a CTIA Authorized Test Lab (CATL) and we are pleased to offer this industry leading capability to our customers.

Once testing is complete Ericsson will provide a final report detailing the results of the CTIA cybersecurity testing and register the device within the CTIA cybersecurity certification database.

Benefits

The benefits of the EDAV Cybersecurity testing program for IoT devices include:

- Test IoT devices per the CTIA cybersecurity test plan in a CTIA authorized test lab
- Test IoT devices for common cybersecurity vulnerabilities
- Provide peace-of-mind regarding the cybersecurity performance of tested IoT devices
- Test IoT devices on LTE and/or Wi-Fi
- Provide a final report detailing the results of the CTIA cybersecurity testing
- Register the IoT device within the CTIA cybersecurity certification database upon passing the CTIA approved cybersecurity test plan

Scope

EDAV cybersecurity testing is in accordance with the CTIA cybersecurity test plan for IoT devices. Per CTIA guidelines, IoT devices are classified into three categories as follows:

Category 1 – IoT Cybersecurity tests

The Category 1 IoT security features are: Terms of Service and Privacy Policies, Password Management, Authentication, Access Controls, Patch Management and Software Upgrades. Examples of category 1 devices are:

- In-home Cellular Personal ERS
- Traffic Monitor
- Consumer Drone
- GPS Tracker
- GPS Dog Collar

Category 2 – IoT Cybersecurity tests

The Category 2 IoT cybersecurity testing includes all Category 1 IoT elements plus the following: Audit Log, Encryption of Data in Transit, Multi-Factor Authentication, Remote Deactivation, Secure Boot, Threat Monitoring and IoT Device Identity. Examples of category 2 devices are:

- Connected Streetlight
- Security Controller
- Industrial Router
- Security Console
- Mobile Payment Devices

Category 3 – IoT Cybersecurity tests

Category 3 IoT cybersecurity testing includes all Category 1 and Category 2 IoT features plus the following additional security features: Encryption of Data at Rest, Digital Signature Generation and Validation, Tamper Evidence and Design-In Features. Examples of category 3 devices are:

- Perishable goods tracking device
- Water, Gas, Electricity meters
- Blood glucose monitoring meter
- Industrial LTE gateway
- Secure services gateway

For more information: <https://www.ericsson.com/digital-services>

About Ericsson

We are a world leader in the rapidly changing environment of communications technology – providing equipment, software and services to enable transformation through mobility. Some 40 percent of global mobile traffic runs through networks we have supplied. More than 1 billion subscribers around the world rely every day on networks that we manage. With more than 37,000 granted patents, we have one of the industry's strongest intellectual property rights portfolios. Our leadership in technology and services has been a driving force behind the expansion and improvement of connectivity worldwide. We believe that through mobility, our society can be transformed for the better. New innovations and forms of expression are finding a greater audience, industries and hierarchies are being revolutionized, and we are seeing a fundamental change in the way we communicate, socialize and make decisions together. These exciting changes represent the realization of our vision: a Networked Society, where every person and every industry is empowered to reach their full potential.