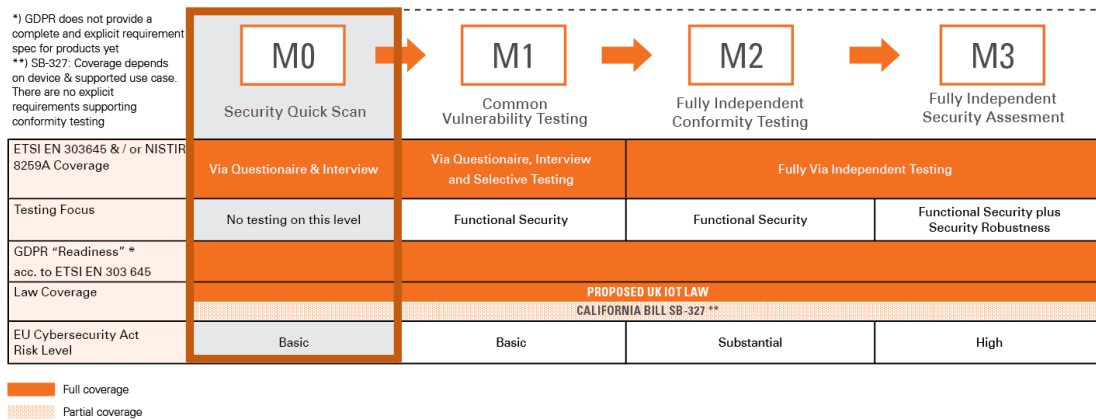


## DESCRIPTION M0 TEST PROGRAM



M0 is an interview and review-based assessment where no independent 3<sup>rd</sup> party tests are performed. This allows a cost-effective approach whenever independent testing is not required or for products with low risk exposure.

M0 is conducted in three steps:

1. Customer is sent a basic questionnaire to determine the functionality and capabilities of the device and the related mobile application and cloud services.
2. Security experts from SGS and the customer go through a detailed interview process where every applicable requirement of security standards in scope are covered. During this process, the customer needs to present evidence which demonstrates
  - a. how the requirements are functionally fulfilled and
  - b. how the requirements are tested internally.
3. Based on the interview process, presented evidence and an analysis of any further provided documents, SGS is preparing a conformity report.

The interview process in step 2 can be conducted at the customer site or via a video conferencing solution.

## BASELINE REQUIREMENTS FOR DEVICES

The baseline requirements we test against for IoT devices are based on public international standards, recommendations, and expertise. For example, the security standard EN 303 645 "Cyber Security for Consumer Internet of Things: Baseline Requirements"<sup>1</sup> published by ETSI or the recommendations NISTIR 8259A "IoT Device Cybersecurity Capability Core Baseline"<sup>2</sup> published by NIST.

Those standards and recommendations specify high-level security and data protection requirements for consumer IoT devices and their interactions with associated cloud services.

<sup>1</sup> [https://www.etsi.org/deliver/etsi\\_en/303600\\_303699/303645/02.01.01\\_60/en\\_303645v020101p.pdf](https://www.etsi.org/deliver/etsi_en/303600_303699/303645/02.01.01_60/en_303645v020101p.pdf)

<sup>2</sup> <https://csrc.nist.gov/publications/detail/nistir/8259a/final>

## BASELINE REQUIREMENTS FOR MOBILE APPLICATIONS

The baseline requirements we test against for mobile applications used to interact with an IoT device are based on public international standards, recommendations, and expertise. For example, the security standard Mobile Application Security Verification Standard (MASVS)<sup>3</sup> published by OWASP provides specific requirements for mobile applications in general. They adhere to mobile application security best practices and cover requirements in terms of code quality, handling of sensitive data, and interaction with the mobile environment.

## BASELINE REQUIREMENTS FOR CLOUD SERVICES

The baseline requirements we test against for cloud services used to interact with an IoT device are based on public international standards, recommendations, and expertise. For example, security guidelines like OWASP's Top 10 for Web Applications<sup>4</sup> and similar provide requirements around relevant cloud services. Note that the scope is limited to the device's context, i.e., only functionality which is relevant to and/or used by the device is within scope of the interview.

### DISCLAIMER

SGS does not warrant that, even in the case there have been no findings during SGS's security assessments and security tests, the test object as described above has no security flaws.

The test results were found at the time of initial testing and or market surveillance and are indicative to products with the listed Version Number and model identifier. The test results are subject to change should there be any change in the manufacturing processes and bill of material used (Hardware and Software).

SGS is not a manufacturer, supplier or distributor of products and makes no warranty, representation, or guarantee regarding the suitability of the products for any particular purpose, nor does SGS assume any liability whatsoever arising out of the use of the product. Buyers shall not rely solely on any data and performance specifications or parameters provided by SGS. Information provided in this document is proprietary to SGS, and SGS reserves the right to make any changes to the information in this document at any time without notice.

## HISTORY

Version	Date	Author	Changes
1.0	Nov 10, 2020	SGS Cybersecurity Services, Graz	Release

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<sup>3</sup> <https://mobile-security.gitbook.io/masvs/>

<sup>4</sup> <https://owasp.org/www-project-top-ten/>