Introduction to GlobalPlatform Certification Secretariat

Details on Functional Certification

GLOBALPLATFORM®
THE STANDARD FOR SECURE DIGITAL SERVICES AND DEVICES

Key Requirements for a Successful Secure Deployment

GlobalPlatform's technology provides a range of authentication, connectivity, privacy and security solutions

1 Protection of Digital Services

2 Certification of Secure Components

3 Secure Remote Management of Digital Services

By addressing these requirements, GlobalPlatform:

- Speeds up alignment between service providers and device manufacturers on technical and commercial interests
- Offers a simpler route to market

GLOBALPLATFORM®

Why Certify?

- Certifying secure components within devices is essential in facilitating collaboration between service providers and device manufacturers.
    - **Device manufacturers** that use GlobalPlatform-certified secure components can proactively market their products as meeting the functional and security needs of digital service providers. They can effectively illustrate that their digital service management capabilities are interoperable and meet industry defined security requirements.
    - **Service providers** recognize this level of assurance, which enables them to select a product that matches their security and privacy needs.

- GlobalPlatform's work to develop and maintain a certification program allows stakeholders to verify product adherence to the association's technical and security specifications and market-specific configurations. This certification program provides support on:
    - Functional certification
    - Security certification

GLOBALPLATFORM®

Why Certify?

- The internationally recognized program is independently operated by a dedicated Certification Secretariat. It is referenced by EMVCo, GSMA and other industry bodies, with testing performed on certified tools, provided by GlobalPlatform-approved laboratories globally.

- The Certification Secretariat uses recognized technology from ISO.

- To achieve certification, a product must be submitted to a GlobalPlatform-accredited laboratory and competently pass several tests to meet the security evaluation and/or functional testing criteria. The laboratory sends its test report to the GlobalPlatform Certification Secretariat for evaluation and issuance of a certificate or letter of qualification.

GLOBALPLATFORM®

Functional Certification

Functional Certification Secretariat Role (extract)

- The Certification Secretariat manages the product qualification process procedures:
  - Evaluates TestFest results and determines whether GlobalPlatform qualification should be granted to a test tool
  - Evaluates laboratory documents and determines whether GlobalPlatform qualification should be granted to a laboratory
  - Evaluates product (and derivative product) requests for qualification and communicates evaluation results
  - Evaluates appropriate resolution of non-conformance issues reported to GlobalPlatform, including additional testing, revision or eventual termination of the 'Letter of Qualification' for a particular qualified product (or test tool).
- The role also includes communicating product qualification process status to third parties, maintenance of product qualification process information on the GlobalPlatform website, and the maintenance of a database that provides the following:
  - Product qualification process documentation and forms
  - List of qualified laboratories, qualified test tools, qualified products, self-tested products.

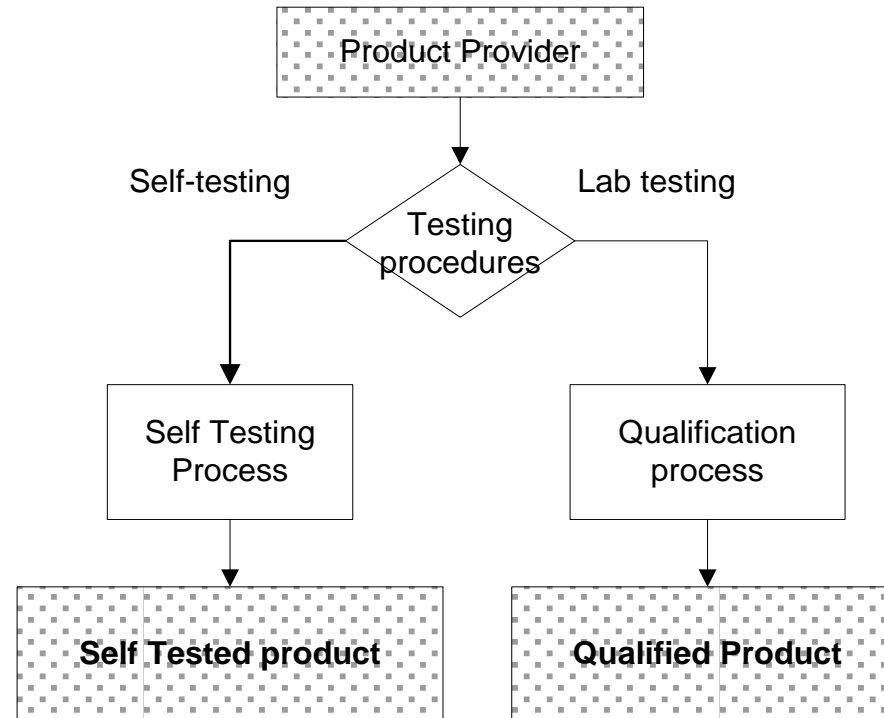**GLOBALPLATFORM®**

Website is a Complete Source for Information

Product Qualification
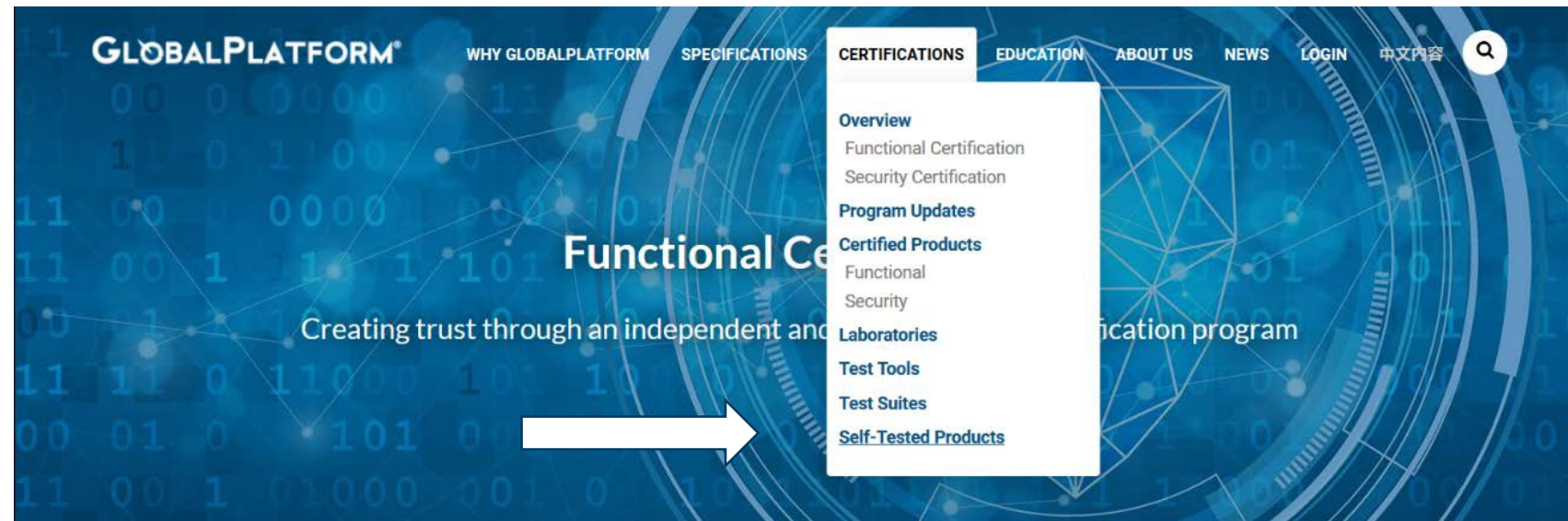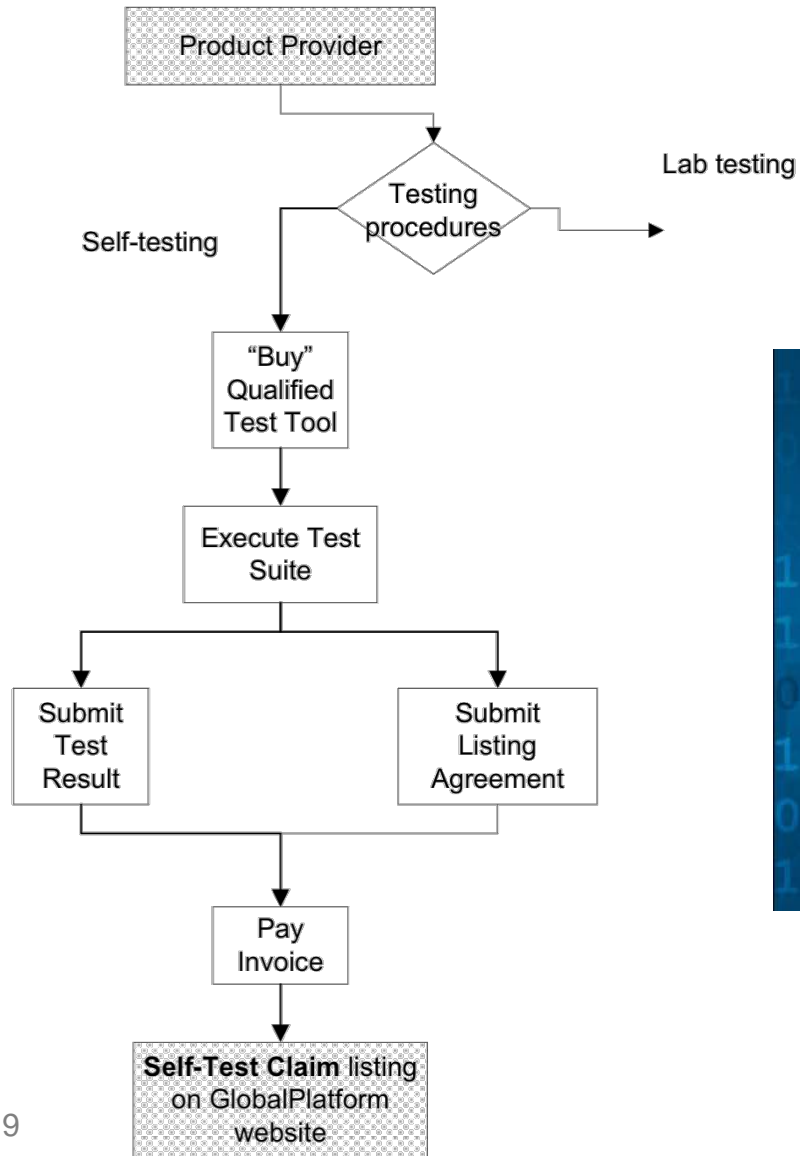
Two possibilities: self-testing or lab testing

Open to members and non-members

GLOBALPLATFORM®

Self-Testing Process

Lab Testing Process

Lab testing

Test session by Qualified Lab

Submit Test Report

Qualification and Listing Agreement

Pay invoice

100% success

No

Yes

Quotation

Quotation Accepted ?

No

Yes

Pay invoice

Non conformance review

Positive report

No

Yes

Letter of Qualification including listing on GlobalPlatform website

Letter of Rejection
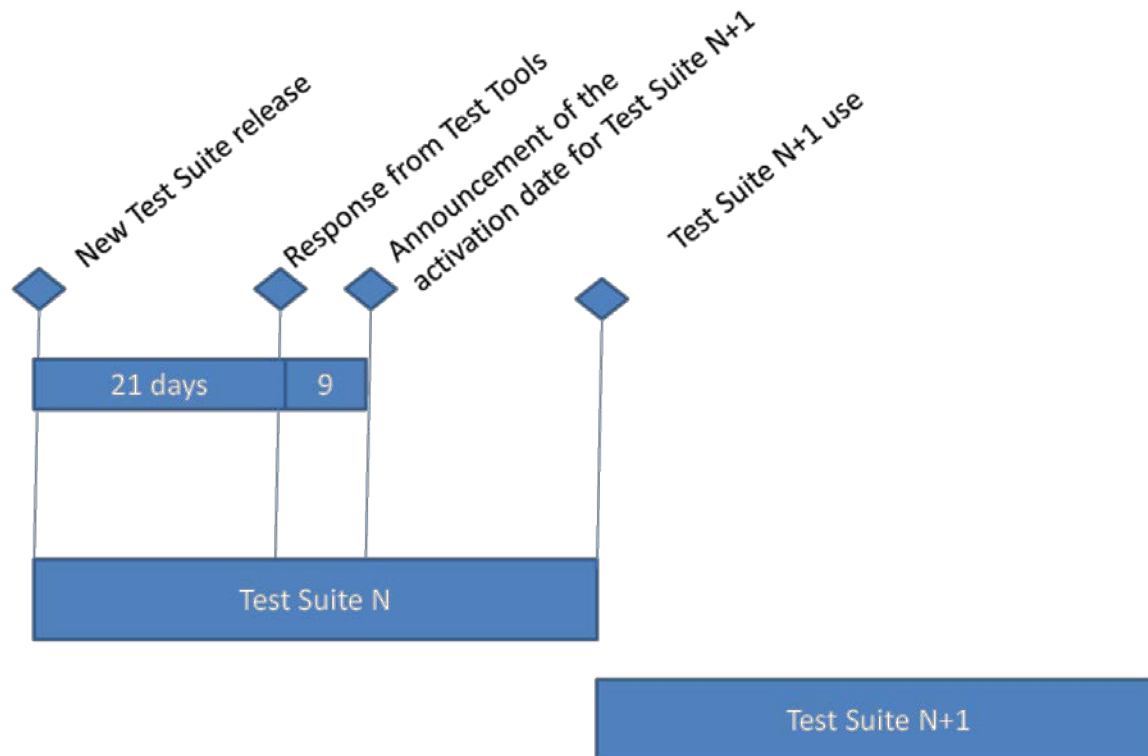
Only when test report shows less than 100% success

*Additional costs of the contract for services between the test lab and the product provider are outside the scope of the GlobalPlatform process

GLOBALPLATFORM®

Version Management

New releases of test suites are released when required to address market demand.

In cases where a new test suite replaces a previous test suite, a specific schedule is created to help users and vendors to address potential impact.
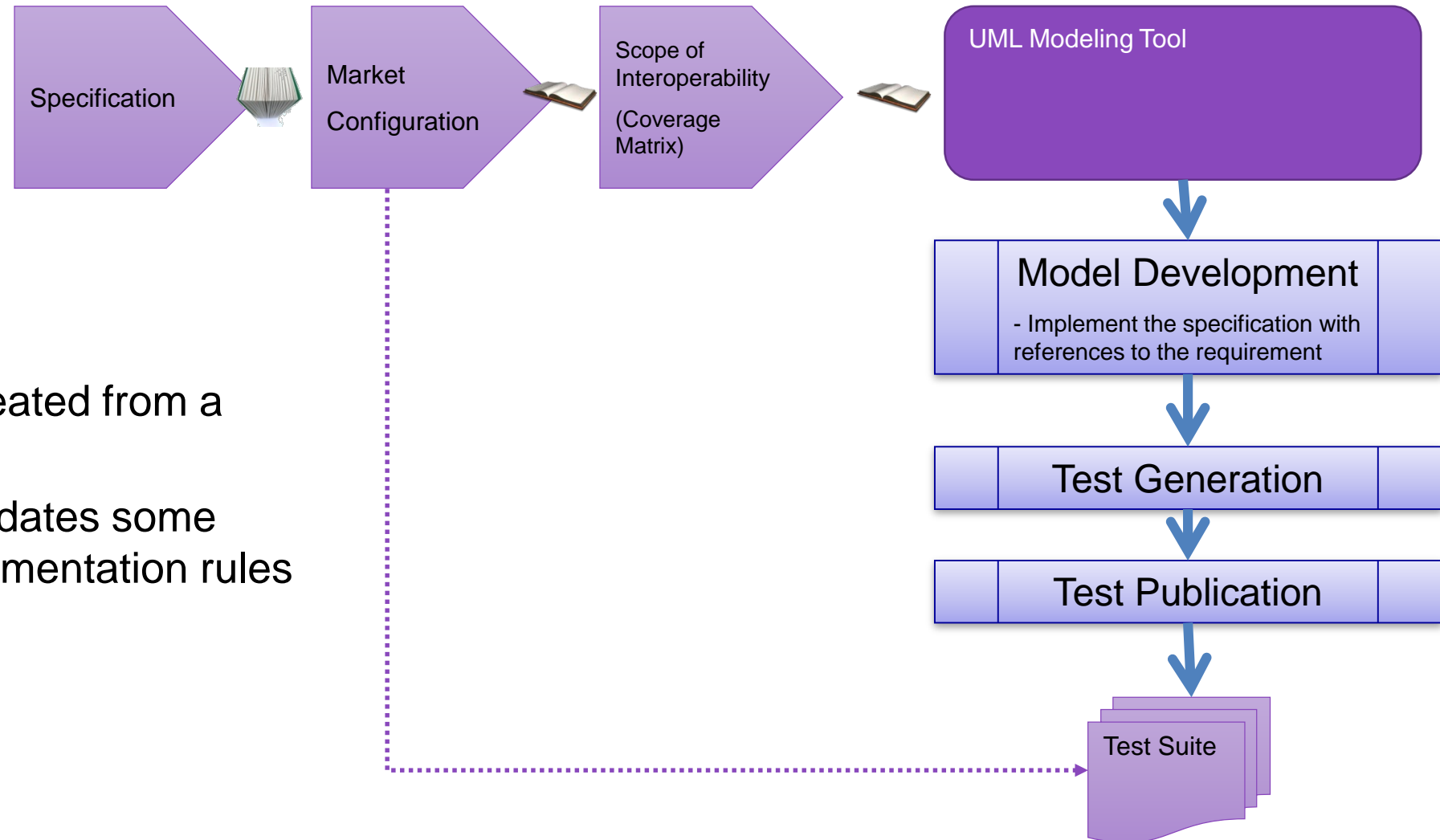
GLOBALPLATFORM®

Qualification of Test Suite and Test Tools

Useful Definitions

- **'TestFest'** means an event conducted by GlobalPlatform for purposes of enabling product vendors to engage in cross-testing of products, in order to demonstrate compliance with the relevant and then current GlobalPlatform Specifications for a configuration and category of product.

- **'Test suite'** means a suite consisting of GlobalPlatform testing documentation, test scripts and/or other materials, based on a given GlobalPlatform Specification and related configuration, which has been released by GlobalPlatform for purposes of enabling authorized users to develop corresponding qualified test products.

- **'Configuration'** means a particular set of features and implementation rules as specified by GlobalPlatform for, or required by, a given GlobalPlatform Specification, such as a configuration for mobile or a configuration for government use.

- **'Test tool'** means a tool that integrates any portion of the test suite and is created, developed or produced for purposes of performing tests on proposed GlobalPlatform compliant products.

- **'GlobalPlatform compliant product'** means a commercial implementation of a product or component that has successfully demonstrated sufficient conformance with the relevant test suite during an official test session in a accredited Laboratory.

GLOBALPLATFORM®

From Specification to Test Suite

- Test suites are generally created from a market configuration
- A market configuration mandates some features and provides implementation rules

Specification → Market Configuration → Scope of Interoperability (Coverage Matrix) → UML Modeling Tool

Model Development
- Implement the specification with references to the requirement

Test Generation

Test Publication

Test Suite

GLOBALPLATFORM®

Compliance Test Suites

Specific License Agreements

- Free license for GlobalPlatform members **internal use only**

- Commercialization license for GlobalPlatform member tool suppliers of **qualified tools**

- Commercialization license for GlobalPlatform member laboratory which delivers **qualified services.**

Specific agreement developed for standardization bodies enabling them to review the test suites and endorse the certification program.

Please note that some test suites are free to use.
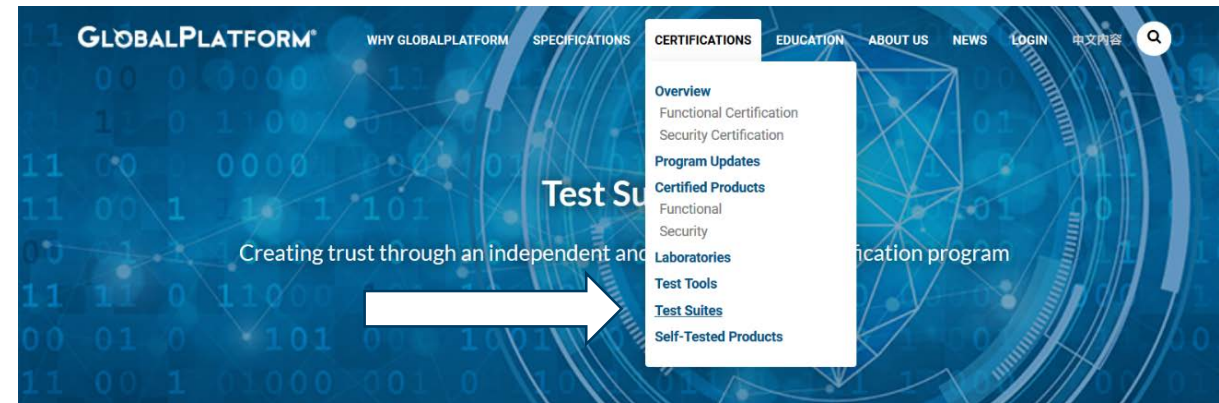
Test Suites

Test Suite and Test Tools Qualification

- A TestFest is a meeting, or series of meetings, organized to perform tests between real products and test tools. A TestFest brings together member organizations in a testing environment where products can be tested for conformance to a configuration in a variety of multi-vendor, multi-tool combinations.

- The purpose of the TestFest is to validate:
  - a test suite
  - and test tools implementing the GlobalPlatform test plan – stability, and of high quality .

- The TestFest environment also offers participants the ability to interact with one another for purposes of improving their individual products and providing feedback to GlobalPlatform on the specifications/configurations themselves.

GLOBALPLATFORM®

Qualified Test Labs

- Laboratory must be:
  - A GlobalPlatform Participating or Full Member
  - An officially recognized lab (ISO 17025 or equivalent) and / or are already an EMVCo, FIPS, Common Criteria, PCI qualified laboratory.
- Laboratory must use a GlobalPlatform qualified test tool:
  - Lab must maintain the test tool to current revision levels (as required by GlobalPlatform / market needs).

- A GlobalPlatform qualified laboratory must have:
  - At least one expert which has undertaken GlobalPlatform's Card Specifications and Test Suites Training. This is delivered by a GlobalPlatform Certified Trainer.
  - OR
  - Have an expert directly participate in the Compliance Working Group, the TestFest process and use their own qualified tool in their accredited lab. This must be the same expert who performs testing services at the lab.

GLOBALPLATFORM®

If you have any specific enquiries, please email the GlobalPlatform Certification Program Secretariat at gpcompliance@globalplatform.org

GLOBALPLATFORM®

Thank you!