GlobalPlatform
Annual Report 2021

GLOBALPLATFORM®
THE STANDARD FOR SECURE DIGITAL SERVICES AND DEVICES

Welcome from GlobalPlatform's Chair

217

Virtual meetings, workshops and webinars to collaborate and empower our stakeholders.
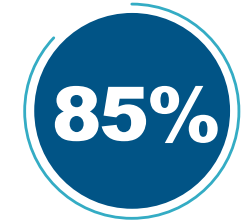
17

Specifications published FY2021, focusing on biometrics, UICC for IoT, TEE management and cryptography.

47

New GlobalPlatform-certified products, helping stakeholders manage risk while embracing digital technologies.

ISO

GlobalPlatform's certification body achieved ISO 17065 accreditation, adding value to the entire cybersecurity ecosystem.

85%

Estimated global cybersecurity requirements addressed by GlobalPlatform technologies.

For over 20 years GlobalPlatform has worked collaboratively to create confidence in, and drive adoption of, innovative digital technologies. The passion and commitment of the GlobalPlatform membership over the past year has shown what can be achieved when technical and security experts unite behind the same mission. As an organization, much of our work has been done virtually for many years. This enabled us to adapt quickly, ensuring the continuity of our work to bring trust to digital services and devices.

As our lives become more entwined with digital technologies, there are untapped opportunities to use Root of Trust technologies and hardware security as platforms for innovation. As part of this effort, the membership is driving several key initiatives:

- **TPS APIs** – simplifying device and application security by easing access to secure services and attestation mechanisms offered by Roots of Trust embedded in secure components and devices.

- **Security Evaluation Standard for IoT Platforms (SESIP) methodology** – enabling device makers and certification bodies to manage their own IoT device certification schemes while optimizing certification reuse.

- **IoTopia Framework & MUD File Service** – a practical implementation strategy to support the deployment and management of secure IoT devices. Our free beta MUD File Service helps IoT device makers to share device network requirements, to simplify device onboarding and management.

Best wishes,

S El Rhomri

Stephanie El Rhomri
GlobalPlatform Chair

In addition to evolving our technical initiatives, we have also made some important changes as an organization. In March, I was honored to be elected as GlobalPlatform Chair and have the privilege of serving the membership at an extremely exciting time for the organization. On behalf of the Board, I would like to thank our members and partners for their ongoing commitment to our organization. GlobalPlatform is founded on the expertise of its people, and without you our work would not be possible.

Why GlobalPlatform?

GlobalPlatform is the standard for secure digital services and devices. Stakeholders from across industries come together to collaborate on the best ways to securely build, certify, deploy and manage digital services and devices. 100% of smartphone SIMs and eSIMs already embed GlobalPlatform technology as a trusted foundation and IoT ecosystems recognize the value that GlobalPlatform's technologies and certification expertise can bring to their implementations.

Our Vision

To create collaborative and open ecosystems in which all stakeholders in the value chain can efficiently deliver innovative digital services and devices, while providing greater end-to-end security, privacy, simplicity and convenience for users.

Our Mission

To empower stakeholders across industries with standardized technologies and certifications for trusted digital services and devices that address their business, security, regulatory and data protection needs.

COLLABORATION

GLOBALPLATFORM

The standard for secure digital services and devices

STANDARDIZED TECHNOLOGIES

CERTIFICATION

DEVICE MAKER
Accelerate secure product development, reducing costs and time.

PRODUCT VENDOR
Ensure products meet market requirements and regulations enabling innovation and differentiation.

APPLICATION DEVELOPER & SERVICE PROVIDER
Protect your data, IP and business by developing optimized secure services.

IOT CLOUD PLATFORM PROVIDER
Develop differentiated services that will work across multiple devices, while protecting proprietary connectivity services.
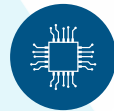
SILICON VENDOR
Design differentiated products that embed trust and answer multiple market requirements, reducing costs.
.

CERTIFICATION BODY
Establish and manage IoT certification schemes that answer specific requirements, simplify evaluations and reduce costs.
.

LABORATORY
Become accredited by a certification body recognized for security and functional compliance, and deliver third-party validation services to generate new revenue.
.

REGULATOR / GOVERNMENT ENTITY
Provide baseline requirements for use in mapping security mandates to market needs.

INDUSTRY BODY
Collaborate with us to drive consistency across the industry and reduce complexity for stakeholders.

Build, Certify, Deploy and Manage:
Empowering stakeholders

GlobalPlatform empowers stakeholders across industries to build, certify, deploy and manage trusted digital services and devices.

Our technologies and certifications are recognized globally by industry bodies including ETSI, EMVCo, GSMA and ENISA.

Build

GlobalPlatform's standardized technologies do not restrict component or device design. Stakeholders can innovate on top of a trusted foundation, answering regulatory and market requirements, and enabling access to secure services for app developers and service providers.
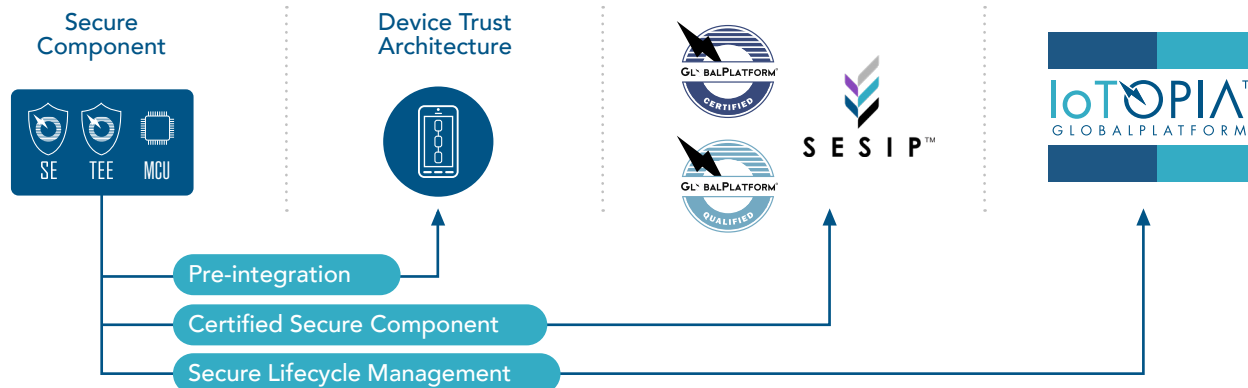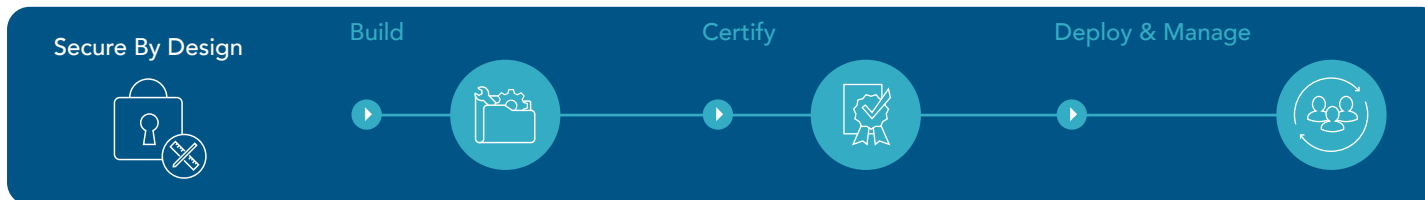
Certify

Certification promotes collaborative and open ecosystems where digital services and devices can be trusted. Certification is essential to facilitate trust, interoperability, confidence and collaboration between stakeholders and foster market stability and growth.

Deploy and Manage

Securely managing and updating devices and applications is essential as industry, service provider, device maker and end-user requirements can change rapidly. The IoTopia Framework enables stakeholders to manage the lifecycle of an object from onboarding to decommissioning.

Secure By Design | Build | Certify | Deploy & Manage

Secure Component — SE, TEE, MCU

Device Trust Architecture

GlobalPlatform CERTIFIED
GlobalPlatform QUALIFIED

SESIP™

IoTOPIA™ GLOBALPLATFORM

Pre-integration

Certified Secure Component

Secure Lifecycle Management

"
We are helping the industry securely manage the entire lifecycle of devices – from inception right through to end-of-life. Business, security, regulatory and privacy requirements are evolving rapidly and, quite rightly, demanding more of the technical community. We are here to ease the security burden, enabling stakeholders to focus on innovation and differentiation.
"

Gil Bernabeu,
Technical Director

GlobalPlatform in Numbers

COLLABORATION

2600+ experts from 80+ organizations around the world

32+ Industry partners

3 Technical Committees

15 Working Groups and 4 Task Forces, addressing specific technology areas and market requirements

STANDARDIZED TECHNOLOGIES

85% approximate global security requirements addressed by GlobalPlatform technologies, including the European Cybersecurity Act and NIST

200+ specifications and technical documents available

17 new specifications in FY 2021

100% of SIMs and eSIMs rely on GlobalPlatform technology

14,772 number of times specifications were downloaded to enable development of secure digital services and devices

GLOBALPLATFORM

The standard for secure digital services and devices

CERTIFICATION

ISO 17065 accredited certification body

50 billion+ GlobalPlatform-certified SEs in-market today

1 billion+ GlobalPlatform-certified TEEs shipped in 2020

3 GlobalPlatform-owned schemes (functional, SE, TEE)

12 Accredited Labs around the world

47 new products certified in FY2021

Industry Collaboration

Energetic and effective collaboration is key to developing standards that enable convenient and trusted digital services and devices.

"Trusted Connectivity Alliance recognizes the importance of close collaboration with technical associations and standards bodies around the world to support the standardization of the Tamper Resistant Element (TRE) ecosystem. Our partnership with GlobalPlatform reflects the organization's unwavering commitment to developing complementary specifications and certification programs, and we continue to work together to enable trust in a connected future."

Claus Dietze,
Chairman, Trusted Connectivity Alliance

TCA | TRUSTED CONNECTIVITY ALLIANCE

We embrace our partnership with GlobalPlatform, which shares our desire to improve online authentication through the development of open, scalable industry standards. We continue to progress and strengthen the value of our relationship with GlobalPlatform by bringing our standards and certification programs together to overall enhance security for online authentication.

Dr. Rae Rivera,
Certification Director,
FIDO Alliance

fido alliance™

A key objective of RISC-V is to bring the industry together and enable a new era of collaborative, open source hardware development. Our work with GlobalPlatform to align specifications and exchange information on known hardware vulnerabilities and the required functionalities to overcome them, is addressing the evolving security needs of the IoT ecosystem. Bringing the major open source hardware and security standardization organizations together in this way represents a sizable leap forward in enabling secure hardware development. We look forward to continuing our work with GlobalPlatform to bring real business benefits to the ecosystem.

Calista Redmond,
CEO, RISC-V International

RISC-V®

The Trusted Computing Group (TCG) and GlobalPlatform have been collaborating on mobile trusted computing technologies for over 10 years, and the results have benefited the entire mobile ecosystem. The two organizations share a common goal: to enable trustworthy mobile computing for consumers and businesses. Each organization has specified technologies -TCG's TPM 2.0 Mobile, GlobalPlatform's Trusted Execution Environment, and Secure Element, to name a few - that are built on sound roots of trust. Through this collaboration, the organizations have developed specifications for interfaces and architectures that are compatible and capable of interacting to support a wide variety of use cases. This fruitful collaboration has transformed a potentially competitive relationship into a cohesive partnership. Ultimately, this collaboration helps provide a united front to encourage mobile ecosystem stakeholders to adopt and deploy trustworthy mobile platforms.

Ira MacDonald,
Mobility Solutions Work Group Co-Chair,
Trusted Computing Group

TRUSTED® COMPUTING GROUP

GlobalPlatform Membership

GlobalPlatform's membership is made up of some of the most influential organizations from around the world. See our membership here.

"

GlobalPlatform members are shaping the ecosystem for connected device security, enabling stakeholders to securely build, certify and manage IoT solutions through collaboration and standardization. Our members experience a range of benefits that help them meet their business and technical objectives.

"

Stephanie El Rhomri,
Chair, GlobalPlatform

⬇ Achieving business goals

Ownership: drive forward technical priorities that matter to your organization.

Collaboration: network with industry experts and technology market leaders.

Visibility: add value to the community alongside some of the biggest names in tech.

Compliance: meet cybersecurity, regulatory and data protection mandates to open up new opportunities and markets.

Efficiency: save time and money by securing digital services and devices with standardized technologies.

Innovation: focus developers on differentiation. GlobalPlatform's standardized technologies give you the secure foundation for your digital services and devices.

Member perspective:

"Learning from industry experts and keeping up to date with the progress of new specifications are some of the most valuable aspects of membership."

⬇ Meeting technical requirements

Get ahead: gain advanced access to specifications, frameworks, testing suites and configurations.

Leadership: contribute to our technical committees and working groups to define industry-shaping security standards.

Strategy: participate in our market-based and regionally-focused task forces to align your global priorities.

Assurance: build trust in your products with discounted functional and security certification.

Cybersecurity: answer approximately 85% of global cybersecurity requirements and regulations with GlobalPlatform technologies.

Education: gain deep insights by working alongside industry leaders and accessing discounted technical training from our experts.

Member perspective:

"Seeing technical needs reflected in development offers an important technical advantage."

⬇ Our Committees and Task Forces

GlobalPlatform has a range of technical committees and task forces to service the varied technical and business requirements of its members. This is how GlobalPlatform members make their voices heard and align the organization's technical priorities with business goals.

⬇ Technical Committees

- Secure Element (SE) Committee
- Trusted Execution Environment (TEE) Committee
- Trusted Platform Services (TPS) Committee

⬇ Market Task Forces

- Security Task Force
- IoTopia Task Force

⬇ Regional Task Forces

- China Task Force
- Japan Task Force

How to Join
GlobalPlatform

GlobalPlatform has membership
options to serve the needs of every
organization. Learn more about
how membership can support your
business and technical objectives
here.

https://www.linkedin.com/company/globalplatform/

https://twitter.com/GlobalPlatform_

https://globalplatform.org/wechat/

https://www.youtube.com/user/GlobalPlatformTV

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