

## EMBARGO TILL March 2nd 6am

This letter can be found at: <https://csa-scientist-open-letter.org/ageverif-Feb2026>

The text below is an open letter on the position of security and privacy scientists and researchers on Age assurance.

**Signatures on Mar 9 (SIGNATURES CLOSED)**

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[SIGNATURES ARE CLOSED] If you are a scientist or researcher in a related field and would like to add your name, please fill this form: <https://tinyurl.com/AgeAssuranceFeb2026> (PhD or demonstrated research track record required)

## **Joint statement of security and privacy scientists and researchers on Age Assurance**

### **Executive summary**

We are writing in response to the worldwide initiatives to introduce age assurance technologies to implement access control to internet services. We share the concerns about the negative effects that exposure to harmful content online has on children, and we applaud that regulators dedicate time and effort to protect them. However, we fear that, if implemented without careful consideration of the technological hazards and societal impact, the new regulation might cause more harm than good.

Age-based regulations have existed in the offline world for a long time: to prevent minors from entering casinos, buying alcohol, or accessing adult content. These checks are based on existing ID documents, only require an existing employee checking the document, and rarely leave written records. The current proposals for age assurance online go much further than this limited set of scenarios. More critically, they lack the inherent privacy provided by ID document-based checks offline. Current discussions regarding the need for regulating social media, AI chatbots, or instant messaging would require all users – minors and adults – to prove their age to converse with friends and family, read news, or search for information; well beyond what has ever happened in our offline lives. In addition, access to content and communications platforms also has [documented benefits](#) for children and adults to find information, seek advice, and encounter communities to break isolation. We observe with great concern that the introduction of age assurance threatens to eliminate all these benefits without any guarantee that such a measure would be the solution to the harms that worry us all, while at the same time establishing an infrastructure that could be exploited to ban access to Internet services for reasons unrelated to safety.

Age-assurance checks are easy to bypass, as evidenced by [current deployments being circumvented using VPNs](#), [bought or borrowed](#) credentials, [or props or AI-based tools \(e.g., deepfakes or AI-generated profiles\)](#), to change the users' appearance. Such checks also require the creation of Internet-wide trust infrastructures that do not exist today, whose technical deployment would be quite complex, and whose [worldwide legal enforcement](#) seems doubtful. They are not guaranteed to prevent minors from accessing harmful online content, or adults from entering children-specific spaces designed to be safe.

Age-assurance checks not only might be ineffective, but can actually diminish safety online by exposing users to malware and scams when they resort to alternative services that do not implement verification—and users will undoubtedly turn to such alternative sources. This policy will inevitably massively reduce privacy online by forcing users to reveal more information to service providers than they do nowadays, or lead to limitations on the use of protective technologies such as VPNs. Both create security risks. Safeguarding privacy requires the use of certified age attributes, which requires users to have such a certification, a compatible device, and digital skills to prove their age. These requirements are not met by a significant portion of the population, such as the elderly, non-EU citizens (if age verification is based on upcoming EUDI), anybody who doesn't hold a national digital ID credential, or simply those who do not want to own a smartphone (especially one supported by the verification system). Thus, age-assurance has great potential to increase inequality and discrimination in the digital sphere.

We are writing this letter to call for a moratorium on deployment plans until the scientific consensus settles on the benefits and harms that age-assurance technologies can bring, and on the technical feasibility of such a deployment. Two critical issues have not been addressed: whether age assurance is efficacious and what the potential damages to general security and privacy are. We believe that it is dangerous and socially unacceptable to introduce a large-scale access control mechanism without a clear understanding of the implications that different design decisions can have on security, privacy, equality, and ultimately on the freedom of decision and autonomy of individuals and nations.

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In the following, we use the term age assurance technologies to encompass *age verification* -- where users have proof of identity provided by a trusted party such as a government ID, *age estimation* -- where verifiers use images or video to estimate age using biometric information, and age inference -- where age is estimated from online behaviour, for example, browsing history.

**Open questions on the feasibility of effective deployment.** For age-based access control to succeed at reducing harm, it needs to be possible to implement it securely and at internet-scale. While the public discussion centers mostly on privacy, there are other important technical considerations that have not received sufficient scrutiny.

*Effective deployment is subject to trade-offs.* Implementing age assurance effectively is a complex, intricate, and multifaceted problem. A weak implementation would enable minors to access content that is deemed not age-appropriate, and also enable adults to access children-oriented spaces (like [Roblox age-group chats](#)), effectively negating the benefits of age-based controls. Overcoming the complex technical challenges outlined below is likely to require compromises and trade-offs that should be analyzed and publicly discussed before launching a ubiquitous intervention at the core of our digital space that, once deployed, would be close to impossible to change.

*Age assurance checks can be easily circumvented.* The effectiveness of age assessment as a protection measure hinges on three factors: (i) users' inability to acquire tools or credentials that enable them to lie about their age, (ii) users' inability to access alternative services that do not perform age assessment, (iii) access to services is forced through the verification mechanism, and (iv) the accuracy of the the age assessment technology.

There is ample evidence from existing deployments that lying about age is not hard. It can be as easy as using age-verified accounts borrowed from an elder sibling or friend. In fact, there are reported cases of [parents helping their children with age circumvention](#). There is evidence that, shortly after age-based controls appear, [markets](#) and [services](#) that sell valid accounts or credentials quickly [arise](#). This enables the use of online services deploying age assurance at an affordable price or even for free. This is the case even if the verification is based on government-issued certificates, as shown by the ease with which [fake vaccination certificates could be acquired](#) during the COVID pandemic.

Even if users cannot obtain credentials, it is trivial to install a VPN to access services from a jurisdiction without age control requirements or that has different age limits. This is [an already widely used practice](#) that is expected to grow as [more alternatives appear](#). Tools are not only limited to geolocated-based circumvention, but we also see how resources to [help users deactivate checks](#) to access the service without the need for assurance appear quickly after checks are deployed.

The wide range of circumvention mechanisms available online is a symptom of a mismatch in the threat model associated with age assurance. As its main goal is to restrict the activities of children, it is common to believe that the only adversary is minors trying to bypass age verification. Yet, age verification mechanisms also apply to adults that will have to prove their age in many of their routine online interactions, to access services or to keep them away from children-specific web spaces. As these checks will jeopardize their online experience, adults will have incentives to create means to bypass them both

for their own use or to monetize the bypass. Thus, it is foreseeable that an increase in the deployment of age assurance will result in growing availability of circumvention mechanisms, reducing its effectiveness.

*Age estimation and age inference bring harm to users without effectiveness guarantees.* To be effective, age assurance needs to work for a wide variety of users and devices. For example, it cannot assume the existence of an app on a smartphone: many users, in particular minors, access the internet from shared computers. Therefore, age estimation and age inference are being deployed alongside age verification (e.g., [Discord](#), [Roblox](#), or [ChatGPT](#)). Age estimation and age inference technologies are highly privacy-invasive. They rely on the collection and processing of sensitive, private data such as biometrics, or [behavioural or contextual information](#) (e.g., language use). Therefore, deploying these age assurance methods at a large scale facilitates (children's) data collection and exploitation.

Moreover, these technologies are well-known to be unreliable. Age estimation and inference rely mostly on AI-based inferences, which, for the particular data types used to do age-related checks (e.g., biometrics), are known to have high error rates and to be biased for certain minorities. Users can even force errors on these technologies, e.g., [by using photos or props like a beard or a moustache](#). We conclude that age assessment presents an inherent disproportionate risk of serious privacy violations and discrimination, without guarantees of effectiveness.

*Building a global trust infrastructure for age verification is non-trivial.* For age assurance checks to actually become effective, services would need to implement methods that are difficult to bypass for the majority of users. With the current state-of-the-art, this undoubtedly requires age verification based on government-issued IDs with strong cryptographic protection *for every single interaction with the service*. This would result in poor usability and exclusion of all users without such IDs. Many service providers are unlikely to accept this direction and the resulting loss of business resulting in reduced overall protection.

Moreover, age verification based on a proof of identity is not only error-prone, but requires the existence of a trust infrastructure at Internet scale. This is needed so that any provider deploying age checks can verify age certificates from all users. Building such an infrastructure is not trivial. It requires, among others, establishing trusted issuers equipped to provide digital certificates at large scale, establishing means to provide verifiers with issuer's key material to carry out the verification, and establishing means to revoke certificates. Building such an infrastructure for securing HTTP web traffic took decades. It is not clear how this could be deployed in the short term at world-scale in such a way that services are protected across jurisdictions, and that no users are left without access to services when outside of their nations (e.g., expats, tourists, or business travellers). The EUDI Wallet promises to solve some of these challenges at the European level, yet the infrastructure has not been rolled out, revocation has not yet been resolved, and interoperability beyond the European Union has not been tackled. Finally, as noted above, even if such a trust infrastructure would exist, checks can be circumvented by acquiring valid certificates or using VPNs, as long as age assurance regulations are not universally enforced by all affected services.

**Lack of understanding of harms.** The public discourse assumes that age-based access control to online services will greatly increase the safety of minors online. Yet, there is no discussion on the harms that such controls could cause to both minors and adults.

*Diminish online safety.* Deplatforming has been repeatedly shown not to deter users from carrying out an activity. Instead, they [migrate](#) to [another platform](#) where they can [continue](#) their activities. If minors or adults are deplatformed via age-related bans, they are likely to migrate to find similar services. Since the main platforms would all be regulated, it is likely that they would migrate to fringe sites that escape regulation. This would not only negate any benefit of the age-based controls but also expose users to other dangers, such as scams or malware that are monitored in mainstream platforms but exist on smaller providers. Even if users do not move platforms, attempting circumvention to access mainstream services from a jurisdiction that does not mandate age assurance might also increase their risk. For example, free VPN providers might not follow secure practices or might monetize users' data (especially non-EU providers that are not subject to data protection obligations), and websites accessed in other jurisdictions through VPNs would not provide the user with the data protection standards and rights which are guaranteed in the EU.

Moreover, the ease of circumvention risks creating a *false sense of security*. The promise of children-specific services that serve as safe spaces is unrealizable with current technology. This means that children might become exposed to predators who infiltrate these spaces, either via circumvention or acquisition of false credentials that allow them to pose as minors in a verifiable way.

*Diminishing privacy online.* The mandate to implement age assurance justifies new forms of data collection by online services, especially for age estimation and age inference. This in itself increases privacy risks, with data being potentially abused by the provider itself [or its subcontractors](#), or third parties that get access to it, e.g., after a data breach, like the [70K users that had their government ID photos leaked](#) after appealing age assessment errors on Discord.

Besides direct leakage, age assurance might affect privacy by reducing users' access to privacy technologies. A main circumvention mechanism is the [use of VPNs to access services](#). This has prompted some policymakers to consider the [regulation of VPNs](#), which are essential digital security tools. Regulating the use of VPNs, or subjecting their use to age assurance controls, will decrease the capability of users to defend their privacy online. This will not only force regular users to leave a larger footprint on the network, but will leave a number of at-risk populations unprotected, such as journalists, activists, or domestic abuse victims. It can also potentially hurt the operations of businesses or educational institutions by hindering the use of VPNs for securing remote access to their infrastructure. We note that we do not believe that trying to regulate VPN use for non-compliant users would be any more effective than trying to forbid the use of end-to-end encrypted communication for criminals. Secure cryptography is widely available and can no longer be put back into a box.

*Increasing discrimination.* Conditioning the access to services on having proof of age means that many adults would not be able to use those services. For example, adults without access to proof of age could be adults without the literacy to use a proof of age such as elderly users; visitors from countries that are not part of the trusted infrastructure; undocumented immigrants, asylum seekers, or incarcerated people. Also users without access to devices, such as those without economic means to acquire one; or users without IDs as a result of being too young, not being able to afford one, or not wanting one. If age assurance checks are introduced, these subgroups would be left behind, or be forced to use either non-private alternatives increasing their risks online or potentially insecure circumvention mechanisms to be able to have a normal digital life.

*Introducing legacy infrastructure.* Many of the age-based control projects we see nowadays are precursors of, or coupled with, the introduction of a larger identity infrastructure. Such infrastructures are intended to enable the verification of attributes beyond age. Running these verification services will collect

increasing amounts of data, introducing further risks regarding tracking and profiling. And because more services will implement checks, inequality and discrimination will increase as well. Studying age-verification in isolation can result in an underestimation of its potential long-term consequences on the security, privacy, and safety of the Internet.

*Centralization of power.* Those deciding which age-based controls need to exist, and those enforcing them gain a tremendous influence on what content is accessible to whom on the internet. Recall that age assurance checks might go well beyond what is regulated in the offline world and set up an infrastructure to enforce arbitrary attribute-based policies online. In the wrong hands, such as an authoritarian government, this influence could be used to censor information and prevent users from accessing services, for example, [preventing access to LGBTQ+ content](#). Centralizing access to the internet easily leads to internet shutdowns, as seen recently in Iran. If enforcement happens at the browser or operating system level, the manufacturers of this software would gain even more control to make decisions on what content is accessible on the Internet. This would enable primarily big American companies to control European citizens' access to the internet.

More generally, the centralization of decision-making, as imposed by age assurance-related regulations, is contrary to the end-to-end principle, core to the Internet design. This principle states that application decisions, in particular those security-oriented, should reside on the endpoints. Age assurance, by design, imposes access control rules on those endpoints, threatening the decentralization of the Internet and jeopardizing the creation of sovereign technology.

**Lack of discussion of the Privacy Enhancing Technologies (PETs) impact.** Privacy concerns and potential solutions are a central part of the discussion, which has led to many proposals for PETs as a solution. We recognize that the tracking capability of a naive implementation of age assurance could be disastrous for privacy and create huge harms. We applaud the effort that is being put into integrating privacy technologies to alleviate these risks. Yet, removing privacy concerns does not address many of the harms that we mention. More generally, the use of PETs risks to bolster centralization by pushing users towards mainstream phone manufacturers that amass more power on the market.

Depending on the implementation, the introduction of PETs might exacerbate existing problems. For example, PETs might bolster discrimination if only some (smart)phones have the necessary capability, software, firmware, or hardware. Users of devices without the required hardware or using operating systems that do not support the necessary functions will be prevented from accessing systems. These are mostly open devices and operating systems, which are mainly favoured by privacy- and security-conscious users. These users would be forced to switch to mainstream devices and software, reducing their protection online.

Moreover, when PETs require complex cryptographic protocols, likely only a few—potentially even a single—implementation will be available, often provided by a single party or company (e.g., Apple or Google). Entities that merely integrate these libraries typically have very limited control over the functionalities provided. Therefore, any changes to the technology must be either made or supported by the supplying party, creating an unresolvable dependency. This not only creates a single point of failure but also immense centralization of power on those controlling the cryptographic libraries.

When privacy requirements are underspecified, and data protection agencies fail to provide explicit regulatory positioning, it creates a dangerous architectural ambiguity that frequently leads to severe data incidents. For example, if a foundational concept such as "unlinkability" can be interpreted loosely, e.g.,

ensuring only that external verifiers cannot link transactions (letting the central authority often retain a complete, global view of user activity), as opposed to the traditional security meaning, where it means that no entity, including the system authority can connect the data points. In the absence of a strong regulation mandating the strict interpretation, organizations naturally default to easier, centralized implementations under the guise of compliance. This compromise creates a massive single point of failure; if that central authority is breached, subpoenaed, or acts maliciously, the supposedly "private" system is completely exposed, transforming a vague technical requirement into a systemic privacy disaster.

**Deployment is not justified unless it is proven that the benefits greatly outweigh the harms.** Beyond technical issues, there is [no scientific evidence](#) to support the assumption that banning minors from accessing services would have a positive effect on their mental health and development. Given the potential risks and available alternatives, deploying a technology with such wide impact without understanding its implications for the online security and privacy of individuals, communities, and societies *cannot be called a proportional solution*.

If children and adults are to be protected from harm, it is of utmost importance that an in-depth study of the harms and broader consequences of age-based checks is conducted before mandating this technology at Internet-scale. Deployments in the UK or Australia, and the introduction of age checks by main providers calls for systematically studying the benefits and harms of this technological intervention.

In the meantime, we encourage the exploration of alternative measures, especially those that tackle the root of the harm. Many of the harms that age-based checks are supposed to address are caused by algorithmic practices of social networks; hence, [regulating those practices](#) to prevent users from being exposed to harmful content would be more directly effective than circumventable access control checks, and would also promote safer services for children and adults. Other avenues to explore include dedicating resources to improve the support for parents to locally prevent access to non-age-appropriate content or apps, without age-based control needing to be implemented by service providers.

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Prof. Daniel Slamanig	Universität der Bundeswehr München
Prof. Dr. Christoph Sorge	Saarland University
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