

The text below is an open letter on the position of scientists and researchers on the recently proposed changes to the EU's proposed Child Sexual Abuse Regulation.

As of the 7th May 2024, the letter has been signed by 312 scientists and researchers from 35 countries.

For information on signing the letter, please see the end of this document.

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Dear Members of the European Parliament,
Dear Member States of the Council of the European Union,

Joint statement of scientists and researchers on EU's new proposal for the Child Sexual Abuse Regulation: 2nd May 2024

We are writing in response to the [new proposal](#) for the regulation introduced by the Presidency on 13 March 2024¹. The [two main changes](#) with respect to the previous proposal aim to generate more targeted detection orders, and to protect cybersecurity and encrypted data. We note with disappointment that these changes fail to address the main concerns raised in our [open letter from July 2023](#) regarding the unavoidable flaws of detection techniques and the significant weakening of the protection that is inherent to adding detection capabilities to end-to-end encrypted communications. The proposal's impact on end-to-end encryption is in direct contradiction to the intent of the European Court of Human Rights's decision in *Podchasov v. Russia* on 13 February, 2024. We elaborate on these aspects below.

Child sexual abuse and exploitation are serious crimes that can cause lifelong harm to survivors; certainly it is essential that governments, service providers, and society at large take major responsibility in tackling these crimes. The fact that the new proposal encourages service providers to employ a swift and robust process for notifying potential victims is a useful step forward.

However, from a technical standpoint, to be effective, this new proposal will also completely undermine communications and systems security. The proposal notably still fails to take into account decades of effort by researchers, industry, and policy makers to protect communications. Instead of starting a dialogue with academic experts and making data available on detection technologies and their alleged effectiveness, the proposal creates unprecedented capabilities for surveillance and control of Internet users. This undermines a secure digital future for our society and can have enormous consequences for democratic processes in Europe and beyond.

¹ Minor modifications have been leaked since, with no significant change and without changing the conclusions in this letter

1. The proposed targeted detection measures will not reduce risks of massive surveillance

The problem is that flawed detection technology cannot be relied upon to determine cases of interest. We previously detailed security issues associated with the technologies that can be used to implement detection of known and new CSA material and of grooming, because they are easy to circumvent by those who want to bypass detection, and they are prone to errors in classification. The latter point is highly relevant for the new proposal, which aims to reduce impact by only reporting “users of interest” defined as those who are flagged repeatedly (as of the last draft: twice for known CSA material and three times for new CSA material and grooming). Yet, this measure is unlikely to address the problems we raised.

First, there is the poor performance of automated detection technologies for new CSA material and for the detection of grooming. The number of false positives due to detection errors is highly unlikely to be significantly reduced unless the number of repetitions is so large that the detection stops being effective. Given the large amount of messages sent in these platforms (in the order of billions), one can expect a very large amount of false alarms (in the order of millions).²

Second, the belief that the number of false positives will be reduced significantly by requiring a small number of repetitions relies on the fallacy that for innocent users two positive detection events are independent and that the corresponding error probabilities can be multiplied. In practice, communications exist in a specific context (e.g., photos to doctors, legitimate sharing across family and friends). In such cases, it is likely that parents will send more than one photo to doctors, and families will share more than one photo of their vacations at the beach or pool, thus increasing the number of false positives for this person. **It is therefore unclear that this measure makes any effective difference with respect to the previous proposal.**

Furthermore, to realize this new measure, on-device detection with so-called client-side scanning will be needed. As we previously wrote, once such a capability is in place, there is little possibility of controlling what is being detected and which threshold is used on the device for such detections to be considered “of interest”. We elaborate below.

High-risk applications may still indiscriminately affect a massive number of people. A second change in the proposal is to only require detection on (parts of) services that are deemed to be high-risk in terms of carrying CSA material. This change is unlikely to have a useful impact. As the exchange of CSA material or grooming only requires standard features that are widely supported by many service providers (such as exchanging chat messages

² Given that there has not been any public information on the performance of the detectors that could be used in practice, let us imagine we would have a detector for CSAM and grooming, as stated in the proposal, with just a 0.1% False Positive rate (i.e., one in a thousand times, it incorrectly classifies non-CSAM as CSAM), which is much lower than any currently known detector. Given that WhatsApp users send 140 billion messages per day, even if only 1 in hundred would be a message tested by such detectors, there would be **1.4 million false positives every single day**. To get the false positives down to the hundreds, statistically one would have to identify at least 5 repetitions using different, statistically independent images or detectors. And this is only for Whatsapp - if we consider other messaging platforms, including email, the number of necessary repetitions would grow significantly to the point of not effectively reducing the CSAM sharing capabilities.

and images), this will undoubtedly impact many services. Moreover, an increasing number of services deploy end-to-end encryption, greatly enhancing user privacy and security, which will increase the likelihood that these services will be categorised as high risk. This number may further increase with the interoperability requirements introduced by the Digital Markets Act that will result in messages flowing between low-risk and high-risk services. As a result, almost all services could be classified as high risk.

This change is also unlikely to impact abusers. As soon as abusers become aware that a service provider has activated client side scanning, they will switch to another provider that will in turn become high risk; very quickly all services will be high risk, which defeats the purpose of identifying high risk services in the first place. And because open-source chat systems are currently easy to deploy, groups of offenders can easily set up their own service without any CSAM detection capabilities.

We note that decreasing the number of services is not even the crucial issue, as this change would not necessarily reduce the number of (innocent) users that would be subject to detection capabilities. This is because many of the main applications targeted by this regulation, such as email, messaging, and file sharing are used by hundreds of millions of users (or even billions in the case of WhatsApp).

Once a detection capability is deployed by the service, it is not technologically possible to limit its application to a subset of the users. Either it exists in all the deployed copies of the application, or it does not. Otherwise, potential abusers could easily find out if they have a version different from the majority population and therefore if they have been targeted. Therefore, upon implementation, the envisioned limitations associated with risk categorization **do not necessarily result in better user discrimination or targeting, but in essence have the same effect for users as a blanket detection regulation.**

2. Detection in end-to-end encrypted services by definition undermines encryption protection

The new proposal has as one of its goals to “protect cyber security and encrypted data, while keeping services using end-to-end encryption within the scope of detection orders”. As we have explained before, this is an oxymoron. The protection given by end-to-end encryption implies that no one other than the intended recipient of a communication should be able to learn any information about the content of such communication. Enabling detection capabilities, whether for encrypted data or for data before it is encrypted, **violates the very definition of confidentiality** provided by end-to-end encryption. Moreover, the proposal also states that “This Regulation shall not create any obligation that would require [a service provider] to decrypt or create access to end-to-end-encrypted data, or that would prevent the provision of end-to-end encrypted services.” This can be misleading, as whether the obligation to decrypt exists or not, the proposal undermines the protection provided by end-to-end encryption.

This has catastrophic consequences. It sets a precedent for filtering the Internet, and prevents people from using some of the few tools available to protect their right to a private life in the digital space; it will have a chilling effect, in particular to teenagers who heavily rely

on online services for their interactions.^{3,4} It will change how digital services are used around the world and is likely to negatively affect democracies across the globe. These consequences come from the very existence of detection capabilities, and thus cannot be addressed by either reducing the scope of detection in terms of applications or target users: once they exist, all users are in danger. Hence, the requirement of Art. 10 (aa) that “a detection order should not introduce cybersecurity risks for which it is not possible to take any effective measures to mitigate such risk” is not realistic, as the risk introduced by client side scanning cannot be mitigated effectively.

3. Introducing more immature technologies may increase the risk

The proposal states that age verification and age assessment measures will be taken, creating a need to prove age in services that before did not require so. It then bases some of the arguments related to the protection of children on the assumption that such measures will be effective. We would like to point out that at this time there is no established, well-proven technological solution that can reliably perform these assessments. The proposal also states that such verification and assessment should preserve privacy. We note that this is a very hard problem. While there is research towards technologies that could assist in implementing privacy-preserving age verification, none of them are currently in the market.⁵ Integrating them into systems in a secure way is far from trivial. Any solutions to this problem need to be very carefully scrutinized to ensure that the new assessments do not result in privacy harms or discrimination causing more harm than the one they were meant to prevent.

4. Lack of transparency

It is quite regretful that the proposers failed to reach out to security and privacy experts to understand what is feasible before putting forth a new proposal that cannot work technologically. The proposal pays insufficient attention to the technical risks and imposes - while claiming to be technologically neutral - requirements that cannot be met by any state-of-the-art system (e.g., low false-positive rate, secrecy of the parameters and algorithms when deployed in a large number of devices, existence of representative simulated CSA material).

We strongly recommend that not only should this proposal not move forward, but that before such a proposal is presented in future, the proposers engage in serious conversations about what can and cannot be done within the context of guaranteeing secure communications for society.

5. Secure paths forward for child protection

Protecting children from online abuse while preserving their right to secure communications is critical. It is important to remember that CSAM *content* is the output of child sexual abuse. Eradicating CSAM relies on eradicating abuse, not only abuse *material*.⁶ Proven approaches

³ [Teens and Internet, Device Access Fact Sheet](#)

⁴ [Expert impact assessment on the initial version of the proposal](#)

⁵ [European Parliament on Online age verification methods on children](#)

⁶ <https://mit-serc.pubpub.org/pub/701yvdbh/release/2>

recommended by organisations such as the UN⁷ for eradicating abuse include education on consent,⁸ on norms and values,⁹ on digital literacy and online safety, and comprehensive sex education;¹⁰ trauma-sensitive reporting hotlines; and keyword-search based interventions.¹¹ Educational efforts can take place in partnership with platforms, which can prioritise high quality educational results in search¹² or collaborate with their content creators to develop engaging resources.

We recommend substantial increases in investment and effort to support existing proven approaches to eradicate abuse, and with it, abusive material. Such approaches stand in contrast to the current techno-solutionist proposal, which is focused on vacuuming up abusive material from the internet at the cost of communication security, with little potential for impact on abuse perpetrated against children.

Signatories list below

⁷ See <https://www.unicef.org/eap/media/3686/file/Digital.pdf> and <https://www.unicef.org/eap/media/4706/file/What%20works.pdf>

⁸ <https://www.gse.harvard.edu/news/uk/18/12/consent-every-age>, <https://theconversation.com/the-law-must-focus-on-consent-when-it-tackles-revenge-porn-29501>

⁹

<https://www.togetherforgirls.org/wp-content/uploads/2019-11-15-What-Works-to-Prevent-Sexual-Violence-Against-Children-Evidence-Review.pdf>

¹⁰ See eg. , <https://www.icmec.org/wp-content/uploads/2018/12/CSAM-Model-Law-9th-Ed-FINAL-12-3-18.pdf>, Graling, K. (2013). The Use and Misuse of Pleasure in Sex Education Curricula. Sex Education 13, no 5 (2013): 305-18.

¹¹

<https://www.end-violence.org/sites/default/files/paragraphs/download/Global%20Threat%20Assessment%202019.pdf>

¹²

<https://www.thestar.com.my/news/nation/2018/04/30/chatbot-to-help-with-sex-education-programme-can-answer-queries-as-well-as-connect-children-to-suppo>

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