

# CYBERSECURITY & AUTHENTICATION

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REGULATION

## Cyber house rules: how Brussels is setting an identification standard

The EU's new digital identity framework, EIDAS 2.0, could spur similar regulatory initiatives elsewhere. While the UK is likely to take a different path, excessive divergence would not be ideal

Ben Edwards

**B**russels has moved to strengthen its legislative clampdown on cybercrime in recent months by means of the revamped electronic identification, authentication and trust services regulation (EIDAS 2.0). This measure is designed to grant at least 80% of EU citizens a digital ID wallet by 2030.

The legislation should pass the trialogue discussions held by the European Commission, Parliament and Council over the next couple of months, after which a transitional period will be in place for member states to set up their own processes for approving digital wallets.

So says Andrew Bud, founder and CEO of iProov, a specialist in biometric authentication and ID verification. "In terms of implementation, we are approaching the end of the beginning," he reports.

Significant wrinkles still need to be ironed out. For starters, some existing (and successful) national programmes – Italy's Sistema Pubblico di identità Digitale, for instance, which has almost 35 million active users – fall short of the highest level of verification assurance required by the new regulation.

"None of those users would be considered adequately onboarded, so they would need to go through that process all over again to qualify for EIDAS 2.0 identities," Bud says.

While the EU is working to limit such disruption, the task of developing the technical standards required to meet the highest levels of assurance is not straightforward.

"The underlying standards – W3C verifiable credentials – are evolving, so it is

**“The brutal reality that people must understand is that it's not if their identity is going to be compromised; it's when**

tricky to build upon a moving foundation," Bud explains.

This all means that numerous unanswered questions remain about how the EIDAS 2.0 framework will work in practice.

Neil Slater is regional director, UK and Ireland, at Veridas, a Spanish firm specialising in biometric ID systems. He believes

that there is "a significant challenge as to what the commercial model is going to look like and who is going to be responsible for the data. There are still many things that need to be resolved. How will the people who provide that digital identity be compensated, for instance?"

Despite such uncertainty, most market watchers believe that EIDAS 2.0 will turn out to be a game-changer for digital ID schemes more broadly.

"This will disrupt the way digital identity is done worldwide," Bud predicts. "The European digital identity wallet will be the first large international scheme to be based on verifiable credential technology. Until now, verifiable credentials have been a far-off aspiration for technologists. Adoption by the EU changes everything. It will lead to the adoption of this tech elsewhere."

Westminster is taking a different tack from that of Brussels by seeking to introduce a framework that gives private sector providers more leeway in how they develop solutions, as long as these meet certain baseline criteria. That's the view of Will Richmond-Coggan, a partner specialising in data privacy at law firm Freeths.

"It will be interesting to see whether the European approach – a top-down diktat about exactly what the verification technology needs to comprise – will turn out to be

more successful than the more flexible approach we are likely to see from the UK," he says.

Richmond-Coggan adds that the need for a more harmonised set of global standards will become increasingly important as more countries develop digital ID schemes of their own.

"What drives EIDAS 2.0 is the recognition that digital identity verification is meaningless if it's not transnational, given that so much commerce is cross-border in nature," he says. "If you are validating someone's identity, you need that to be recognised consistently wherever you are in the world."

As the development of digital ID schemes gathers momentum globally, some analysts have voiced concerns that a significant proportion of this work could slip into the hands of big tech. The fear is that such an outcome could restrict innovation.

"Control of digital identity data is extremely commercially valuable to platform operators whose revenues depend on advertising or the monetisation of access to their platform users," Bud explains. "The bigger



players, which can more easily add identity data to their collection of revenue-generating services, will create barriers to those seeking to develop competitive alternatives."

To deal with that risk, the EU has been enacting policies designed to ensure that innovation and competition continue unimpeded. For instance, the Digital Markets Act 2022 protects third-party identity service providers from incurring additional charges from big tech when accessing devices to verify users.

The recent advances in generative AI may also focus minds on the need for wider digital ID adoption to reduce the risk of online fraud, Bud notes.

"The ability to create sophisticated fake images and voices – and, indeed, conversations – has become available to almost everyone," he says. "We will soon be unable to tell the difference between a fake image and a human being."

This means that ID verification tech will need to incorporate so-called liveness detection systems. These are designed to ensure there is a real person involved and not computer-generated imagery.

Past ID initiatives have generally elicited either resistance or apathy from British consumers. With this in mind, a public education programme may soon be appropriate, according to Slater.

"We need to start really educating people on the benefits of having a digital identity and explaining that it isn't one step closer to giving Big Brother control over our lives," he says. "The brutal reality that people must understand is that it's not if their identity is going to be compromised; it's when – and that a digital ID can add a significant layer of security."

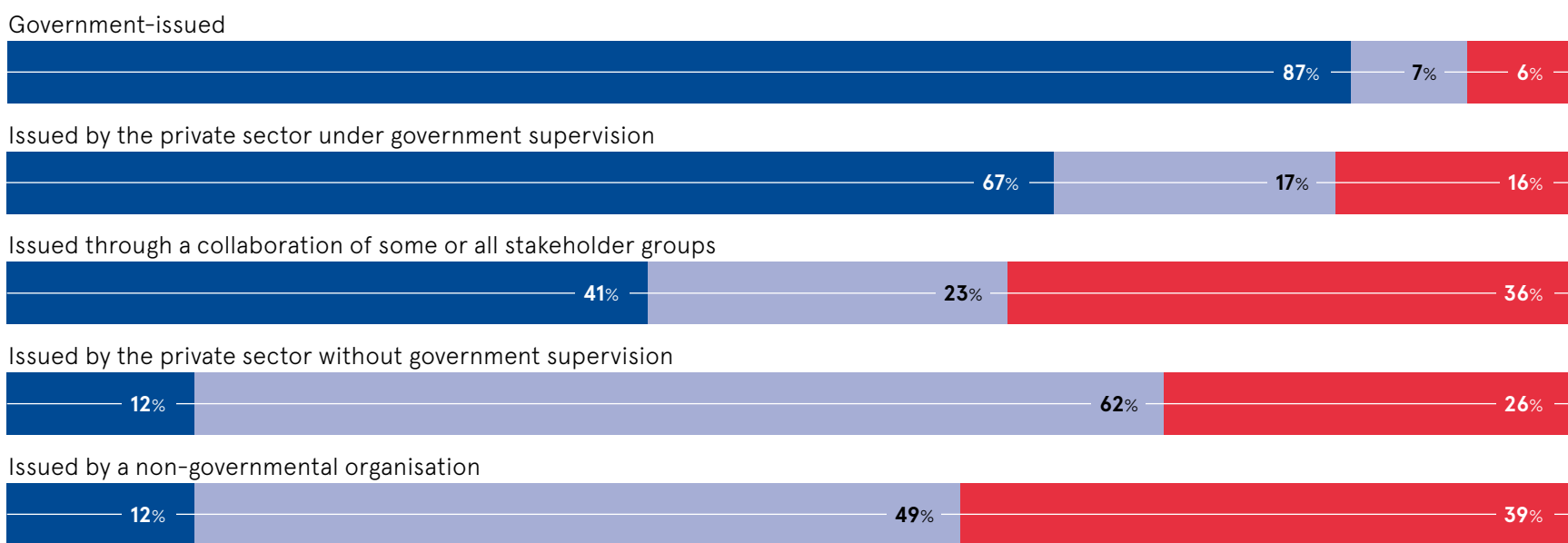
Bud believes that the prospects for digital ID are brighter in the UK than they have been at any time over the past decade, but he notes that challenges remain. The lack of a clear approach from policy-makers is a risk, he says, and the government has yet to map out how AI, privacy and cybersecurity regulation will work together.

"Lots of important plates are spinning just now," Bud says. "It's crucial that not one of them breaks."

GOVERNMENT-ISSUED DIGITAL IDENTITY VERIFICATION SYSTEMS ARE GENERALLY HIGHLY TRUSTED WORLDWIDE

Consumers' responses when asked about the trustworthiness of digital IDs issued in the following ways

● Would trust ● Would not trust ● Not sure



Association of Certified Anti-Money Laundering Specialists, Royal United Services Institute, YouGov, 2021

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## PROCUREMENT

# How to pick the right cybersecurity provider

The market is awash with agencies that overpromise and underdeliver. Here's the best way to identify the elite performers that will keep your IT assets safe from harm

Charles Orton-Jones

Every company needs a cybersecurity partner. The question is: how do you choose the most competent one from the crowd of players offering such services? The sector has attracted a lot of newcomers in recent years and gained notoriety for spouting unsubstantiated marketing hype. This suggests that there may be plenty of wrong 'uns out there.

Philip Hoyer is EMEA field chief technology officer at Okta, a digital ID specialist based in Silicon Valley. He says that "the painful truth is that cybersecurity procurement calls for elite BS detection. Ever since the Covid digitalisation gold rush, where all firms became digital service and product companies overnight, and the shortage of experienced specialists at the enterprise level, the cybersecurity market has earned a reputation for using fear tactics to sell silver bullets."

Other common offences by providers include exaggerating their expertise and

scale; aggressively marketing unproven technology; overcharging clients; and losing focus once the contract is signed.

What, then, are the hallmarks of a cybersecurity partner that can be relied upon to do none of those things?

Certification is a good indicator. A reputable provider should have all the right documents. The classics are ISO27001, Cyber Essentials Plus and Certified Information Systems Security Professional. If the firm is from the US, it should have FedRamp credentials, which indicate alignment with the government's official Federal Risk and Authorization Management Program.

Then it's time to interrogate your candidates. Claire Vandenberg, cybersecurity specialist at TSG, a managed IT provider, suggests the following questions to start with: "Do they have cyber insurance? Request a copy of the policy to verify exactly what is covered, such as public liability and legal expenses. Are they aware of the UK government's Network and Information Systems Regulations 2018 and how its recently announced intention to bring managed-service providers into their scope will affect their operations? Are they familiar with the Center for Internet Security's critical security controls and how these can be used to generate risk scores for organisations?"

Vandenberg advises checking that their claims are accurate, adding: "Request their certification number so you can verify that they're certified. And ask them to confirm the scope of their certification, because



they may have had to exclude certain areas of the business to obtain it."

With the answers to these key questions, you'll be able to make a shortlist. To winnow its constituents down to a winner, you'll need to conduct active research into the competence of each potential partner.

"Companies can request a trial period to evaluate the vendor's solutions," says Dominik Birgelen, co-founder and CEO of oneclick, a provider of cloud-hosted digital services. "This enables them to assess their usability, effectiveness and compatibility."

Birgelen suggests a proof-of-concept project to test the vendor's suitability. This should enable you to determine whether its technology integrates well with your stack.

Then there's penetration testing, which is where a white-hat hacker searches for weak points on a network. They will start by running programs to probe for flaws, often using off-the-shelf applications such as Metasploit, Wireshark and Burp Suite.

A pen tester will also, with your permission, also try social engineering. They may go phishing by emailing infected files to employees and seeing whether they download the bait, for instance. They may look for the reuse of passwords across platforms.

They may call the IT team pretending to be an employee with lost credentials, bluffing their way into the system. And they may

even show up at the office and try to physically gain access to systems. An unattended PC could give them the opportunity they need to inject malware into the network.

Pen testers succeed more often than not – it's usually just a matter of time and resources. Then comes the question of how far they can move within a network once they've infiltrated it. Zero-trust networks and internal perimeters should mean that access to one part of the system does not mean access to everything. Does the cybersecurity provider understand how to deploy a pen tester and respond to their findings?

There's also the matter of data location. Professor Simon Hepburn, CEO of the UK Cyber Security Council, identifies this as an important factor to take into account.

"Organisations should establish where data is held and whether the supplier's servers are hosted in the UK, the EU or overseas," he advises. "The location may affect records of processing activities and data protection officer plans under GDPR, so it's a key consideration before investing."

Naturally, a cybersecurity partner will have to do more than meet these requirements. It must be a cultural match too. This means it must listen carefully when you explain your needs. Do you want your partner to be on call 24/7 and advise the IT team comprehensively, or be less hands-on? The

prevailing view in this sector is that such aspects are often overlooked.

Last but not least, there's the issue of cost. Knowing how much to pay is extremely difficult. Organisations' requirements can vary so widely that benchmarking can seem arbitrary.

"Before any decisions are made, be especially wary of overly complex pricing models." So says the founder and CEO of Arco Cyber, Matthew Helling, a man with more than 30 years' experience in this sector. He believes that quotes "should be simple and easy to understand. No business appreciates hidden costs, especially when it turns out that further funds are required after the project has been approved. Pricing should be straightforward, providing a perspective on scalability and future costs."

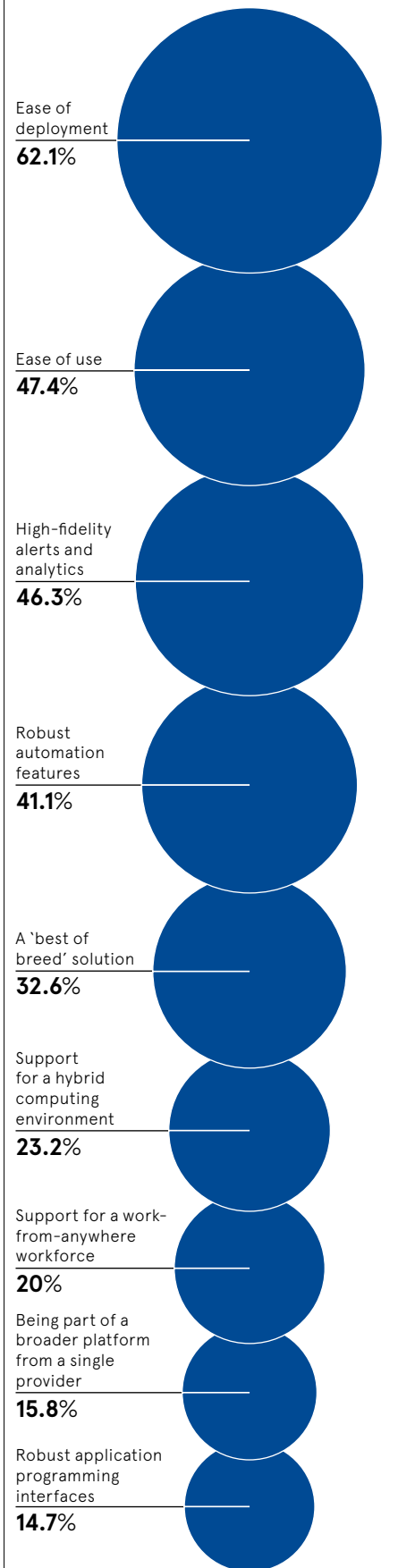
In short: if you can't understand precisely what you're paying for, something is amiss.

Is finding the right partner complex? Yes, but so is cybersecurity. Protecting your company's many IT assets – servers, PCs, tablets, mobiles and other networked hardware – from a growing arsenal of attack methods is a tough gig.

A cybersecurity partner can make the difference between the smooth running of those assets and the loss of six months' profits to a Russian ransomware gang. It's worth choosing the right one. ●

## WHAT ARE SECURITY LEADERS LOOKING FOR IN A VENDOR?

Share of CISOs giving the following responses when asked which characteristics were most important in a potential cybersecurity solution



VWware, 2022

“Pricing should be straightforward, providing a perspective on scalability and future costs

Commercial feature

## How to mitigate cyber risk in a post-pandemic world

A recent survey reveals that only 28% of executives in Europe believe their organisation's cybersecurity resilience to be "very high"

When asked what keeps them up at night, the 1,300 C-suite executives globally who were interviewed, listed supply chain threats as the top risk.

Indeed, with the chain only as strong as its weakest link, supply chain ecosystems, which are often as long as they are complex, provide a weak spot that puts every global enterprise in the crosshairs of cyber criminals.

Take the BBC, British Airways, Aer Lingus and Boots for example, who this month are among a growing number of companies that have fallen victim to a third-party cyber breach. The attack, which was perpetrated by the Russian cybercriminal group, Clop, exploited a key vulnerability in MOVEit transfer software, which is used by all four organisations. From there, Clop, which specialises in ransomware and data theft attacks, was able to steal personal data including national insurance numbers and the bank details of thousands of staff.

So, why are supply chain vulnerabilities making organisations more susceptible to cyberattack? Haider Pasha, chief security officer of Palo Alto Networks for EMEA & LATAM, says, "it isn't just third-party ransomware attacks that are increasing". He notes that the overall threat landscape "continues to evolve" due to the adoption of remote and hybrid working models, plus a major shift to the cloud, which he

notes "have become the new-normal in a post-pandemic world and have increased our digital attack surface significantly".

As a result, Pasha points to recent research carried out by the company's elite threat intelligence and security consulting team, Unit 42, which highlights four worrying trends.

Pasha explains: "Research by Unit 42, whose multi-layered research capability includes monitoring the dark web, has revealed that due to an increased number of enterprises embracing digital transformation over the last three years, off-the-shelf tools have lowered the barriers to entry into cybercrime. As a result, we're likely to see a new generation of cyber criminals emerge to add to the threat already posed by organised crime and state sponsored cyber groups, who frequently carry out ransomware attacks."

With a perfect storm of cyber threats having already made landfall, Pasha, who has worked in the cyber security sector for 25 years, says that organisations who want to stay one step ahead of cyber criminals "must be able to forensically analyse attacks, and the actions of perpetrators, in real time".

Pasha explains, "At Palo Alto Networks, unlike other cyber security companies, who only offer post-incident response, our unique selling point is that we join the dots and provide 80,000 customers – each of whom span the global industry value chain – with the entire life-cycle of a cyberattack."

To meet its objectives, the company, which was founded in 2005 by Israeli-American Nir Zuk, has inculcated a five-stage process within the DNA of its 13,500-plus staff.

Says Pasha, "The Prepare, Protect, Detect, Respond and Remediate methodology is at the heart of everything we do in our mission to protect endpoints, the cloud and the network of our customers."

To counter supply chain attacks, for instance, Palo Alto Network's advanced service management capabilities provides clients with a platform that tells them in real-time where their critical assets are located.

"This unique visibility not only pinpoints the location of all critical and non-critical data, but it contains another pioneering feature, which scans imported code, such as open source, for potential vulnerabilities throughout its life-cycle. This ensures that an extra layer of security is deeply embedded within the continuous integration/continuous delivery (CI/CD) pipeline."

But perhaps the greatest game-changer is that Palo Alto Networks has been using state-of-the-art artificial intelligence to power all of their leading-edge solutions for over a decade.

Pasha says, "We began using AI in our WildFires product over 10 years ago. Wildfire is a cloud-based service that provides malware sandboxing while fully integrating with the client's cloud or on-premise systems. Previously, it was the responsibility of an analyst to decide whether a suspicious file was good or bad. That job could take hours. But, with AI, we discovered that it could be completed in seconds. That was a groundbreaking moment for us as it demonstrated the power of AI to transform entire security operation centres (SOCs).

"Now we are finding that when organisations deploy the right level of good data in their SOCs, AI, which underpins our entire suite of products, can reduce the number of roles and functions in a traditional SOC team."

And the chief benefit? "It enables the same number of people to work more efficiently, effectively and towards tasks that they enjoy, such as hunting and building automation playbooks. That's a win-win for us and the organisations that we serve."

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