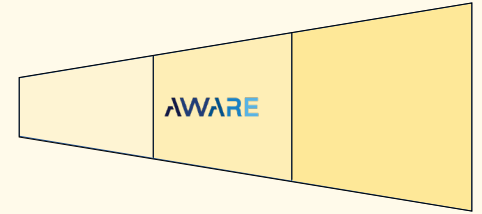
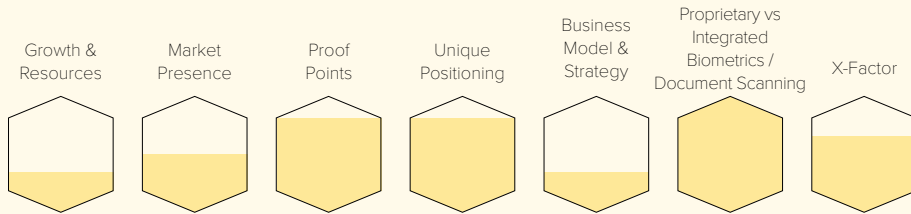


BEAM: Biometric ID Platform / CLASSIFICATION: Catalyst



Aware was founded in 1986, and it has evolved along with the biometrics and digital identity industries ever since. With strong roots in government and law enforcement, Aware has a foundation of robust capture, search, and matching technologies, trusted by agencies around the world. It boasts proprietary biometric technologies spanning the range of core modalities (face, fingerprint, iris, and voice), and serves orchestrated identity services and solutions to customers in the retail, payments, banking, enterprise, healthcare, travel, and government sectors. Operating in over 20 countries, Aware now offers government-trusted biometric digital identity to those sectors with the mission of balancing security and user experience.

Biometrics Expertise Keeps Aware Ahead of the Curve

With a portfolio of turnkey solutions, frameworks, SDKs and identity system building blocks, Aware's greatest strength is its biometrics expertise. If you want to know the history of biometrics, trace Aware's history. The firm has consistently anticipated market needs and developed or acquired technology to meet them. Notably, its Knomi® mobile biometric authentication framework was launched in 2017, just as liveness detection, face, and voice biometrics were entering mainstream commercial use. Anticipating the increased need for verification technologies in the onboarding process, Aware acquired Fortress Identity in 2022. This flexible attitude toward keeping its portfolio competitive puts Aware ahead of similarly mature players.

Ready to Connect, Deploy, Verify, and Authenticate

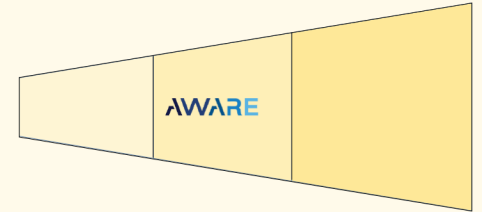
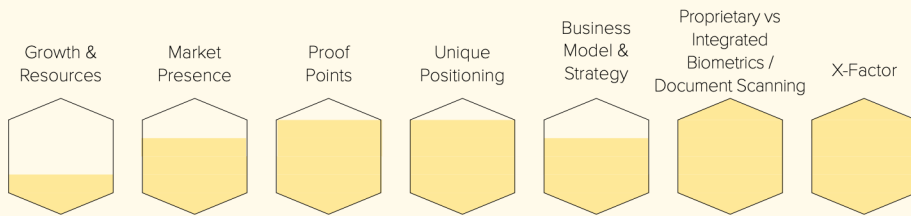
Aware's decades of innovation have done more than keep it on the cutting edge. In 2023, the company has a robust portfolio of biometric technologies in line with the evolving direction of biometric digital identity. These range from turn-key solutions, to biometric frameworks, to SDKs. It's BioSP™ is a powerful middleware solution for identity management, while its new AwareID® solution is ready to deploy out-of-the-box for low-code verification and authentication. Every vendor in the Biometric ID Platform Prism Beam is positioned thanks to its ability to fully orchestrate user identity, and it's here that Aware stands out: exemplifying the many forms that full-lifecycle identity can take through its products, frameworks, connectors, and building blocks, all fine-tuned for its customers' specific needs.

An Advanced Ecosystem Player

The emerging biometric digital identity ecosystem is diverse, interconnected, and global. Variety is integral to the future of digital ID. Aware's long standing commitment to interoperability in its technologies and its embrace of international standards enable the company to help clients avoid vendor lock-in, which happens when a single aggressive player takes advantage of the leap-frog effect, in which developing nations are able to deploy advanced identity systems because of their lack of legacy infrastructure. That adaptability and flexibility, along with its proven track record in developing markets like Africa, makes it a role model for the biometric digital identity industry while positioning it for success as the world moves into the next phase of digital ID.



BEAM: Biometric ID Platform / CLASSIFICATION: Catalyst



Aware is a pioneering Biometric Identity Platform provider with a proven track record of being ahead of the curve, anticipating trends with its innovative research and development. For decades it has been true that to understand where the identity industry is heading, one only needs to check in with Aware’s latest efforts. With a robust and versatile product portfolio, the company is capable of meeting a variety of financial services challenges while serving its commitment to security, accuracy, compliance, and innovation. Privacy, data security, and ethical alignment are priorities for Aware, and are foundational to its platform, which leverages individual offerings like AwareID®, Knomi®, and BioSP™ to address three significant and well documented pain points in this sector: fraud, customer experience, and regulatory compliance.

A History of Success

For years, Aware’s technology has been actively addressing those three pain points and seeing measurable success. From helping a Fortune 500 bank meet new regulatory requirements in the wake of the 2008 financial crisis, to aiding a Turkish retail bank as it improved its operations and became a regional leader in the wake of the COVID-19 pandemic, Aware has consistently shown versatility and adaptability, anchoring its clients in trust through the course of turbulent world events. Whether it’s a workflow management provider using Aware’s technology to process loans four-times faster through its mobile channel without compromising security, or a commercial bank in Brazil deploying its biometric platform to keep fraud low while growing by a factor of 10 in a five-year period—Aware delivers solutions that meet the evolving demands of financial services.

Dispatches from the Fraud Arms Race

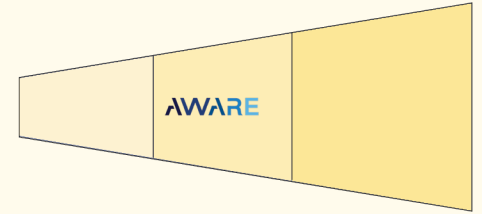
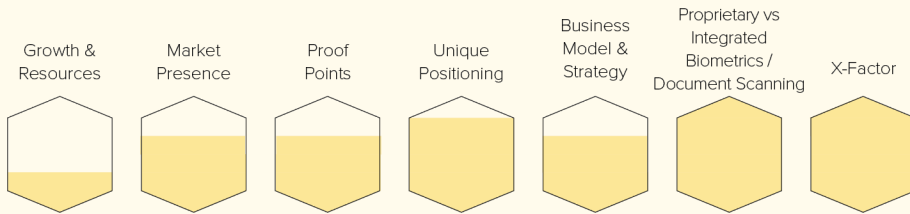
Biometric digital identity evolves as a result of an ongoing arms race between bad actors and security innovators. A leading Brazilian bank, serving 55 million customers across the Americas, Europe, and Asia, initially came to Aware because of this arms race—the facial recognition system it already had in place was unable to defend against increasingly prevalent presentation attacks during account creation. Aware deployed its Knomi Liveness Detection solution to ensure fraudsters weren’t making accounts with stolen IDs and spoofs. But the fight wasn’t over. A new, more sophisticated threat emerged: injection attacks.

Orchestration in the War on Fraud

To address the injection attacks, Aware implemented three additional levels of security—securing the biometric capture process, adding a layer of biometric analysis for presentation attacks, and integrating non-biometric best practices to verify the security of a user’s biometric data on acquisition, in transit, and during processing. This holistic approach was immediately successful, reducing fraud by 86% in the first six months of implementation. By taking a hands-on, proactive approach with its client, this Biometric Identity Platform Catalyst was able to move quickly and successfully at a massive scale.



BEAM: Biometric ID Platform / CLASSIFICATION: Catalyst



Aware has been a foundational force in the biometric digital identity space ever since it collaborated with the FBI on the first large-scale fingerprint digitization effort in 1993. Operating in over 20 countries, the company has a reputation for its biometrics expertise and prescient research and development, consistently ahead of the curve as trends shift. To learn the history of biometrics, simply trace the history of Aware. With a longstanding commitment to interoperability and a comprehensive portfolio that includes proprietary technologies spanning every core biometric modality (face, finger, voice, and iris), the company offers end-to-end solutions for multiple enterprise and defense use cases, as well as customers across retail, payments, banking, financial services, healthcare, government, and travel and hospitality.

Competitive Advantage

The travel and hospitality space is beset by competitive challenges, from brand loyalty to operational efficiency, to traveler experience. Aware’s broad product portfolio allows it to meet varying demands of travel and hospitality players, with solutions spanning the entire identity lifecycle—Knomi, AwareID, and Biometric Services Platform (BioSP)—which enables biometric onboarding along with face and voice matching supported by top-rated passive liveness detection. When a leading air transport communications IT company aimed to streamline international arrivals, they deployed Aware’s technology to allow visitors to start the border control process from home, reducing the wait time at the border. Aware’s customer uses this solution to vet one of every five visitors, and the results are impressive: its costs have been reduced by a factor of ten.

One-Way Tickets

Not all travel is for business and pleasure. Visa applicants and asylum seekers are also part of the travel equation, and this can be a serious fraud vector. By implementing biometric verification for the screening process of long-term visitors and folks seeking residence, border agencies can have greater confidence that the people being admitted into their country are who they claim to be. Of course, the interoperability and interagency data sharing required to enable this is significant, and not every vendor in the biometrics digital identity space is capable of providing these long-term solutions. True to its legacy, Aware is one of these vendors, and to see the results, one need only look to Canada

The Canadian Welcoming Committee

In 2012, Citizenship and Immigration Canada (CIC) awarded a joint contract to Aware and Fujitsu. The vendors were tasked with providing the Canadian agency with a biometrically enabled eVisa and eBorder Control process. Over the first 12 months, the companies developed, tested and implemented what would become Canada’s “Temporary Resident Biometrics Project” in which fingerprints and photographs are collected from temporary resident applicants. Aware’s solution is the connective infrastructure for the biometric system that manages temporary residents for the world’s tenth largest economy that depends on temporary residents for its rich culture and social vibrancy. The company managed to meet all of CIC’s requirements on delivery, and it continues to provide this solution eleven years after initial deployment.

In the biometric digital identity travel and hospitality space, the longevity and expertise required for projects of such importance is a rare commodity. Aware is a glowing example of the long-term vision and commitment required for sustainable biometric border control which is a crucial element of the travel and hospitality ecosystem.