

Fighting payment fraud and checkout friction is key to businesses delivering a safe and convenient e-commerce experience for their customers. EMV® 3-D Secure (EMV 3DS) provides a way to identify fraudulent card payments more quickly and accurately, so that issuers and e-commerce merchants can prevent fraud without disrupting the purchase process, and consumers can expect a safe and easy checkout experience every time.

Why EMV 3DS?

More and more consumers are shopping online using a variety of devices.

> €717 billion

Total of European e-commerce sales in 2020, an increase of more than 12% year-over-year.

*E-Commerce News Europe, Europe 2020: Ecommerce Region Report

E-commerce fraud is a growing challenge for businesses to manage.



Online payment fraud loss to grow 50 percent in Europe by 2024.*

False declines are a key problem in the fight against fraud.

Merchants are also losing money and customers because of false declines, which are legitimate transactions that are rejected due to suspected fraud.

Global losses due to false declines expected to have reached \$443 billion by the start of 2021 nearly 70 times more than losses from fraud itself.*

*Juniper Research, Online Payment Fraud: Emerging Threats, Segment Analysis & Market Forecasts 2020-2024 *Aite Group, The E-Commerce Conundrum: Balancing False Declines and Fraud Prevention

Consumers expect a secure, quick and convenient e-commerce checkout

experience.



Given the rapid growth of e-commerce globally, merchants must engage with the digital channels or risk following the path of the dinosaurs. But they also have to manage digital channel activity with finesse to increase sales while improving security in an environment in which threats are ever-growing and consumers demand an easy, quick, and convenient checkout experience.

*The E-Commerce Conundrum: Balancing False Declines and Fraud Prevention (Aite Group)

The importance of authenticating the individual making the payment continues to be key in the fight against fraud. EMV 3DS is a fraud-prevention technology that enables consumers to authenticate themselves with their card issuer, without adding unnecessary friction to the payment process that often leads to abandoned purchases. The EMV 3DS Specification provides a common set of requirements product providers can use to integrate this technology into their solutions to support seamless and secure e-commerce payments.

For more information on EMVCo please visit: 🔈 www.emvco.com

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How does authentication work with EMV 3DS?

Payer authentication is the process of verifying that the individual making a purchase with a payment card is the legitimate user of the card. For e-commerce purchases where EMV 3DS solutions are used, the process works like this:



Consumer uses a payment card to make an online purchase on a mobile phone, tablet, laptop or other device.

To confirm that the consumer making the purchase is the actual cardholder, the merchant uses EMV 3DS for authentication. This involves sending data about the transaction, payment methodand device information to the issuer.

Issuer reviews the data, decides the type of authentication needed, performs it and then processes the transaction per the usual authorization process. For transactions that are higher risk, EMV 3DSprovides an additional layer of security by validating that the individual making the purchase is thelegitimate cardholder. In these cases, the issuer can choose to prompt the consumer to authenticate themselves using a one-time-passcode, knowledge-based questions, biometrics or other method.

Evolution of EMV 3DS

3DS 1.0 -

3DS 1.0 was developed by Visa in 2001 to provide an additional security layer for online card payments.

EMV 3DS -

EMVCo released the EMV 3DS Specification to support the widespread adoption of 3DS technology for delivering convenient and reliable e-commerce payments globally.

EMVCo continues to evolve the EMV 3DS Specification to address industry needs for security, performance and user experience.

1 3-D Secure 2.0 has the potential to be a key tool in issuers and merchants' fight against CNP fraud.

The airline industry has always looked to prevent fraud and better protect its customers. The EMV 3DS protocol helps make internet card payments more secure, while achieving a better balance between security and customer convenience by letting the card issuer know more details about the intended purchase.



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// ...communication protocols such as EMV 3DS provide a means for merchants to support the use of SCA. The Euro Banking Authority (EBA) notes that versions 2.0 and newer support a variety of SCA methods, while trying to ensure customer convenience, limiting fraud through data sharing and transaction risk analysis, and enable the use of exemptions set out in the Regulatory Technical Standards (RTS). For those reasons, the EBA encourages the use of such communication protocols and expedient onboarding.

Benefits of EMV 3DS

EMV 3DS solutions help card issuers to identify fraudulent transactions more quickly and accurately, so that merchants can prevent e-commerce fraud with minimal disruption to the purchase process, and consumers can expect a safe and easy checkout experience.

Card Issuers	Merchants	Consumers
Enhanced authentication and fraud management	Greater security, less friction	Better, safer checkout experience
Better data and flexible authentication methods improve the decision-making process for issuers to determine the legitimacy of a transaction	An additional layer of security helps merchants better prevent fraud and promote convenience for their customers, resulting in:	Consumers can use their preferred device to shop online and expect: Quicker, easier authentication
resulting in:	Improved transaction security	 Fewer purchases inaccurately
 Increased transaction approval rates 	 Liability for fraudulent transactions shifted away from the 	 Confidence in safety of the
Less e-commerce fraud	merchant	transaction
 Greater consumer confidence that transaction will not be falsely declined 	Fewer false declines	
	 Reduced risk of checkout abandonment 	

The European payments community can leverage these features to comply with the Payment Service Directive 2 (PSD2) Strong Customer Authentication (SCA) regulation.