How EMVCo is Exploring Advances in Agentic Commerce and Digital Identity and Payments

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17 September 2026, 2:25PM

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About EMVCo

EMVCo enables card-based payments to work seamlessly and securely worldwide.

Mission

To facilitate the worldwide interoperability of secure payment transactions by developing and publishing the EMV® Specifications and their related testing processes.



- Specifications
- Approvals and Evaluations
- EMVCo Marks
- Industry Engagement and Collaboration

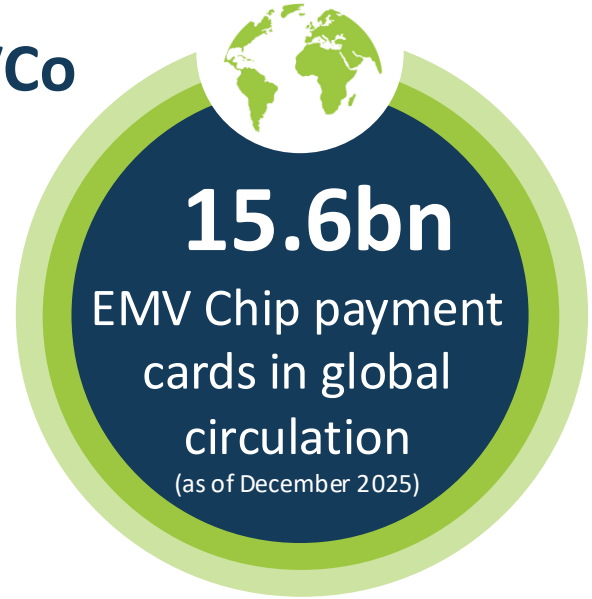
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EMV in Numbers

EMV® Chip technology provides a global foundation of security and interoperability.

Building on this foundation, EMVCo continues to respond to transformative technological shifts.

Worldwide EMV® Deployment Statistics





of all issued cards globally are EMV
(as of December 2025)



of all card-present transactions globally were EMV Chip
(as of December 2025)

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Current EMVCo Associates



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*Participation as of July 2026

Industry Engagement

EMVCo engages with industry, regional and national bodies to help shape specifications that support the advancement of the global payment ecosystem.





































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Exploring Advances in Agentic Commerce and Digital Identity and Payments

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Agentic Payments

Agentic commerce is rapidly reshaping the shopping experience by enabling AI agents to act on the consumer's behalf.



This is driving significant momentum for agentic payments, which introduce AI agents as new actors that can initiate transactions with merchants – without requiring direct involvement from the consumer.

As industry adoption and innovation accelerate, a globally interoperable and scalable approach may be beneficial in realising trusted agentic payments for consumers, merchants and issuers.

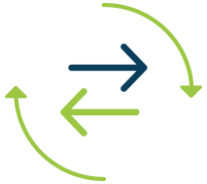
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Agentic Payments Task Force - Overview



An Agentic Payments Task Force has been established to develop and publish EMVCo's coordinated solution for secure, interoperable and scalable card-based agentic payments.

Opportunity



- Define EMVCo's position for agentic commerce trust – spanning delegation, agent identity and payment data models
- Develop underlying trust architecture, including validation, lifecycle, interoperability, and align with EMV Specifications and other external standards

EMVCo's role



- Maintain and enhance a set of APIs and SDKs that provide a common data definition and methodology for the creation of a payment payload
- Clarify how specific use cases may leverage EMV Technologies, adjusting APIs and SDKs as necessary
- Provide guidance on consumer experience and testing

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Intent Services



- A key requirement of agentic commerce is establishing intent
- EMVCo has been exploring the concept of Verifiable Intent, with the Agentic Payments Task Force developing a draft framework defining ‘Intent Services’
- This will provide an overview of ecosystem roles and data fields for registering intent, maintaining lifecycle and state information, and enabling the authorised retrieval of intent-related data

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Digital Payment Credentials

- Verifiable Digital Credentials (VDCs) are digital representations of the physical credentials used in everyday life
- VDCs are gaining momentum in the digital identity landscape:
  - W3C, OpenID, ISO, IETF, FIDO, EUDI large-scale pilots
- Digital Payment Credentials are a form of verifiable digital credential

The data elements and data structure of VDCs vary depending on the specific use case – which shapes how information is stored, shared and verified.

While this has advantages, it raises the risk of fragmentation if different approaches are taken for the same use-case.

This is why EMVCo is using its proven experience developing global specifications to define a DPC that represents a payment card-specific application of VDCs.

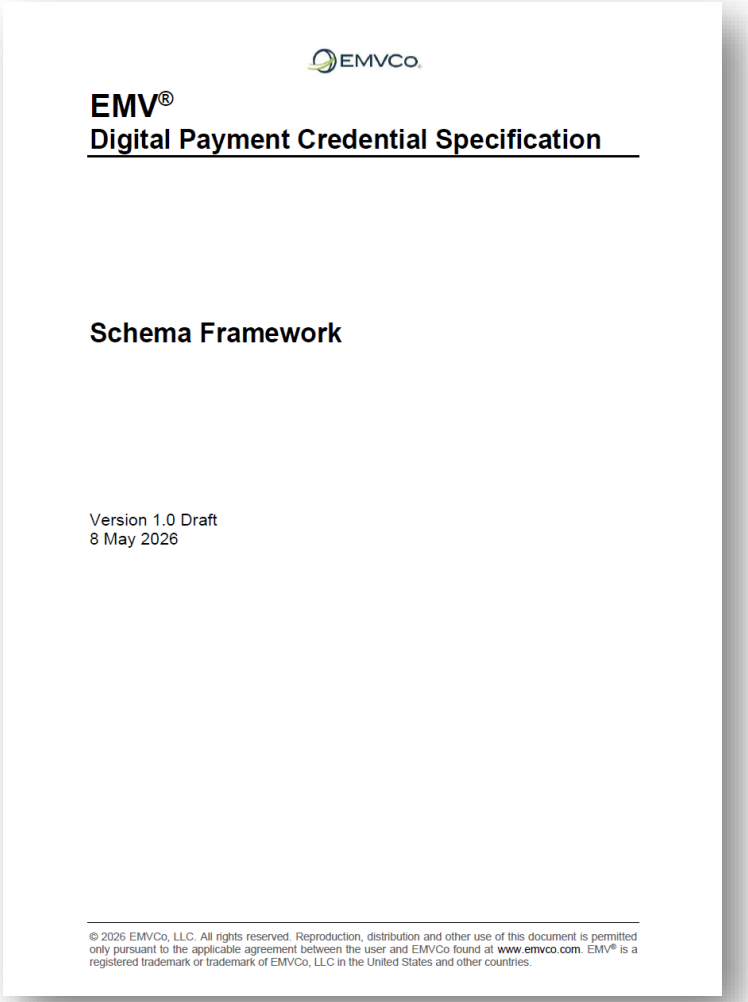
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EMV® Digital Payment Credential Specification – Schema Framework

EMVCo is initially focusing on providing a framework for defining the data that a Digital Payment Credential (DPC) contains and how it is structured – known as a 'schema'.

The schema will define what data a credential contains and how it is structured, including:

- **The claims and data elements contained in a credential:** Including their names, data types, and semantics
- **The structural rules and constraints for those claims:** Ensuring consistent interpretation across issuers, holders/wallets, and verifiers
- **The credential type for a specific use case:** Independent of protocol, transport, or cryptographic mechanism


EMVCo

EMV®
Digital Payment Credential Specification

Schema Framework

Version 1.0 Draft
8 May 2026

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What's New with EMV® 3DS?

- The EMV® 3DS White Paper is available in both an interactive online format and as a PDF, providing industry participants with an accessible, easy-to-use, interactive resource that aims to promote a better understanding of the EMV 3DS Specifications

- EMVCo updated the paper to include dedicated guidance on specific transaction types and technical features, including out-of-band (OOB) authentication
  - EMVCo has been working with the industry to provide recommendations to help improve the user experience and approval rate when it is used in browser-based transactions

- EMVCo is exploring how to move towards a specification structure and delivery process for EMV 3DS that helps to simplify solution development and deployment, while optimising testing



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What's New with EMV® SRC?

- EMVCo has published Version 1.5 of the EMV® SRC Specifications, which introduce two major updates:
  - Support for electric vehicle (EV) open payments
  - The use of passkeys for card listing

- EMVCo is now working to advance the EMV SRC – Click to Pay Customer Experience (CX) Guidelines

- As the EMV SRC Specifications have matured and industry adoption has built, new use cases such as EV charging have emerged that broaden the applications beyond e-commerce

- EMVCo is also investigating the potential for EMV SRC to support interoperable, open payments for road tolling. Agentic payments are another area of interest

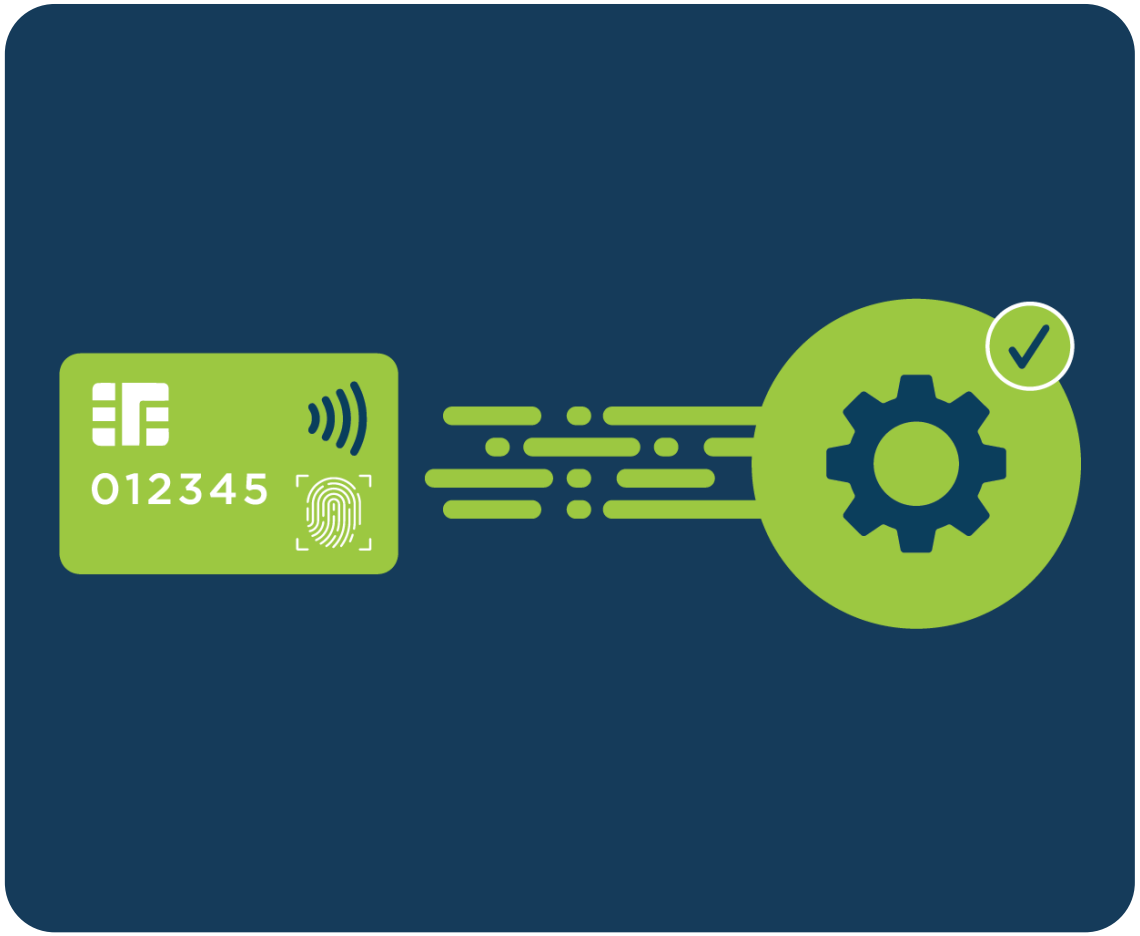


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Emerging In-Store Payment Experiences

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Biometric on Card



- EMVCo launched its Biometric on Card initiative to help balance convenience and security, while addressing the unique considerations for biometric payment cards.
- Dedicated security requirements have been defined and incorporated into the chip security guidelines and evaluation process.
- EMVCo has also defined performance requirements for the fingerprint sensors on biometric payment cards and developed a dedicated supporting performance testing approval process.

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Evolution of Consumer Card Acceptance Devices



Dedicated devices were used for all acceptance environments to ensure:

- Interoperability
- Security
- A great user experience

Even in the most demanding acceptance environments, such as transit and retail.



Small businesses started using consumer mobile phones for payment, enabled through dedicated accessories embedding:

- Magstripe
- Contact
- And contactless readers

These accessories allow full compliance with EMV® Specifications (and PCI requirements).



Even more recently, NFC-enabled devices are used for contactless card acceptance.

These devices can be:

- Off-the-shelf mobile phones
- Devices designed for professionals with payment in mind (but not as primary/sole use case)

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What is TapToMobile?

EMVCo released the **TapToMobile User Experience Guidelines** in August 2021, focusing on the user experience aspects of mobile devices:

- Where do I tap?
- Point to tap may be on the reverse side of the screen
- No fallback to chip or magstripe



EMVCo launched its COTS (Consumer Off The Shelf) Early Adopter Programme in October 2020, which ran until April 2022.

A number of NFC-enabled devices were evaluated with respect to their 'compatibility' with EMV® compliant cards and mobiles.

One of the major findings is that user experience on these devices depends mainly on their NFC strength or 'read range'.

TapToMobile specifically allows merchants to accept contactless payments directly on NFC-enabled consumer mobile devices (such as smartphones, phones or tablets) with no need for an additional connected device, dongle or attachment.

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Shape the Future of EMV® Specifications



Associates:
EMVCo Associates play an active role in EMVCo's strategic and technical direction and contribute their knowledge and expertise to shape the development of EMV® Specifications

Industry stakeholders across the globe, including merchants, banks and technology providers participate as EMVCo Associates to advance seamless and secure payments worldwide

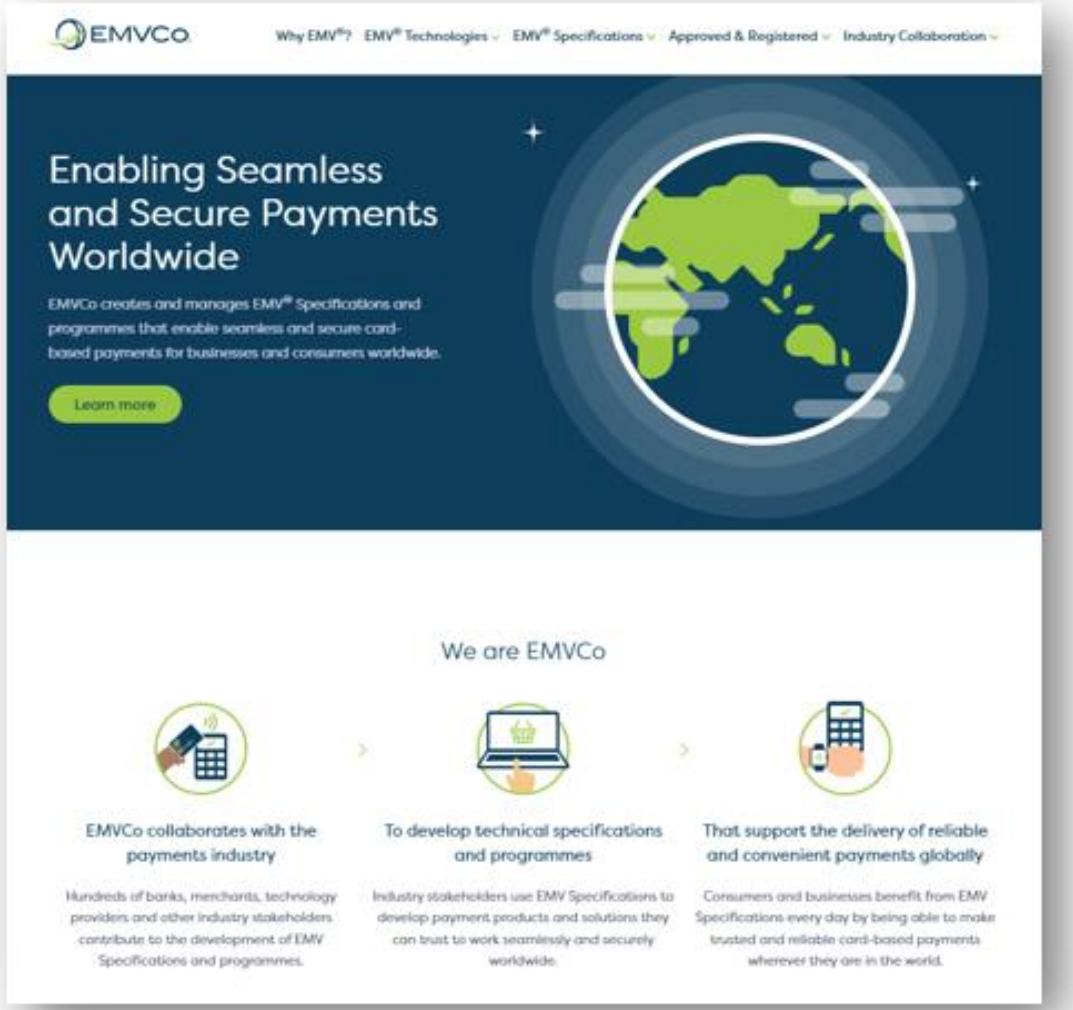
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