

Dynamic EMV Solution

Everything You Need for EMV Data Preparation and Personalization

The transition from magnetic stripe cards to EMV chip cards has increased security — but also increased the level of complexity in the card issuance process. The Entrust Dynamic EMV Solution helps to simplify this complexity, consolidating all necessary EMV functions into an end-to-end solution for EMV smart card issuance.

The Dynamic EMV Solution includes a new and improved architecture, simplified UI, and a fully scalable approach to profile development with self-service capabilities. The user-friendly web-based application enables complete configuration of EMV single-application and multi-application profiles based on the most common industry-standard profiles, which can be pre-configured as product templates to further simplify EMV card personalization. Manage your BIN and risk parameters and retain a high level of autonomy with any EMV profile setup.

With Dynamic EMV Solution Advanced Profile Development (APD), users can create new EMV profiles or make profile changes themselves, eliminating the time-consuming and costly need to engage Entrust to create or change each profile. This enables faster time to market for customers to incorporate new chips into production. Dynamic EMV Solution groups profile settings in their natural locations, in particular separating data preparation settings from personalization settings, making it easy to make changes such as introducing new card types or moving profiles through environments.

The Dynamic EMV Solution comprises a browser-based user interface and a runtime engine. Through the user interface, you configure data preparation and personalization rules that are executed by the runtime engine. The data preparation rules define key generation, risk parameters, and the DGIs (data groupings) that are presented to the terminal. The personalization rules define chip authentication, applet instantiation and DGIs, and card locking/key rotation. You can choose the process (data preparation-only, personalization-only, or data preparation and personalization in one-step mode) that fits your needs.

Key Benefits

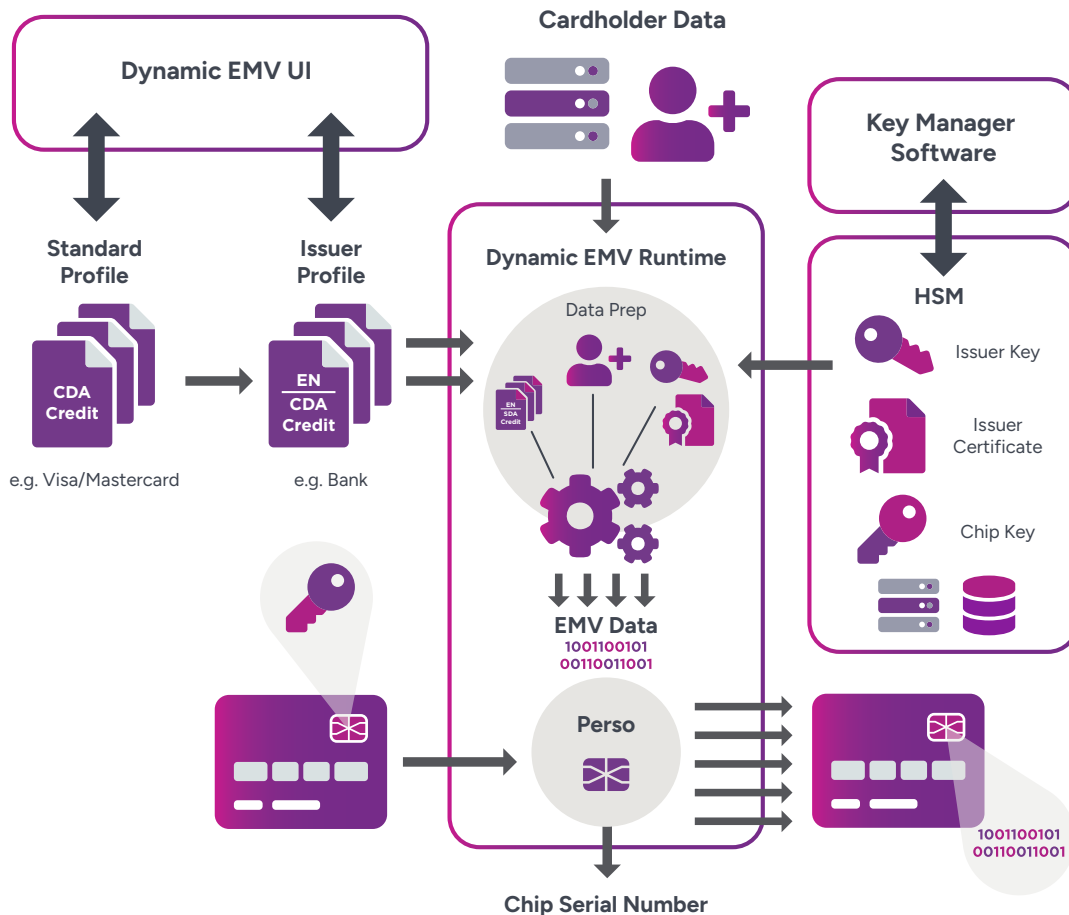
- **Simplified UI:** Configuration of EMV profiles is completely supported through the browser-based application UI, without needing internal modifications that only Entrust can provide
- **Quick time to market** for customers to integrate new profiles into production
- **Self-service capabilities** for customers using Advanced Profile Development to create and manage their own profiles with the simple application UI, reducing the cost and time to implementation
- **Decoupled profiles and settings** simplify the EMV process for large and complex issuance environments, making them easier to maintain
- **Profile Integrity:** The reuse-through-copying paradigm of Dynamic EMV gives assurance that new EMV profiles or profile changes can be introduced without affecting other profiles

The Dynamic EMV runtime engine works together with Adaptive Issuance™ Chip Interface Software and Key Manager Software to perform EMV data preparation and personalization based on the configured rules. Its card-driven personalization capability detects the card type at time of personalization and automatically selects the appropriate personalization rules.

Your investment is protected by our commitment to ongoing innovation and open standards, enabling you to incorporate new technologies, meet new standards, and adapt your issuance operations to fit evolving business strategies.

Modular Framework

The Dynamic EMV Solution offers built-in compatibility with Entrust's entire portfolio of high-volume central card issuance systems. In addition to software and card issuance systems, Entrust also offers a comprehensive portfolio of card delivery and envelope insertion systems, consultative services, technical support, secure laminates, and program supplies.



Leverage Entrust Professional Services for EMV Expertise

The Entrust Professional Services team offers unmatched expertise in smart card personalization and EMV development, consulting, training, and customization for the world's leading card issuers. Based on decades of experience, our consultants will work closely with both our clients and partners to design and deploy the right solution for each unique environment, leaving the relevant team with the knowledge to maintain it for years to come.

Entrust Professional Services Offers the Following:

- Dynamic EMV profile development
- Dynamic EMV consulting
- In-depth EMV training

Key Features & Product Editions

The following table introduces the different product feature and three editions that are available for Dynamic EMV. The definition of each product edition is as follows:

- **Plus Edition:** For production environments where no profile development is required. Ideal for customers who plan to work with Entrust Professional Services or a partner to develop profiles for them.
- **Professional Edition:** For test and development environments. Full profile development and configuration capabilities (when paired with the Advanced Profile Development add-on). Ideal for customers who intend to develop their own profiles.
- **Integrator Edition:** For test and development environments. Ideal for integrators and partners to develop and distribute profiles for their customers.
- **Advanced Profile Development (APD) subscription add-on:** Required for customers that intend to do their own profile development and maintenance.

	Plus	Professional	Professional with APD	Integrator
Administration	✓	✓	✓	✓
User Management	✓	✓	✓	✓
Environments				
View library	✓	✓	✓	✓
Add, copy, delete, edit, import, export	✓	✓	✓	✓
Production Contexts				
View library	✓	✓	✓	✓
Delete, import, export	✓	✓	✓	✓
Edit	Card list and BIN list only	✓	✓	✓
Copy		✓	✓	✓
Products				
View library		✓	✓	✓
Delete, import, export		✓	✓	✓
Copy		Excludes ability to edit terminal DGIs, app instances, or subtypes	✓	✓
Cards				
View library	✓	✓	✓	✓
Delete, import, export	✓	✓	✓	✓
Copy	Excludes ability to change chip	✓	✓	✓
Add		✓	✓	✓
Chips				
View library		✓	✓	✓
Delete, import, export		✓	✓	✓
Copy		Excludes changing applets	✓	✓
Add			✓	✓
Applets				
View library			✓	✓
Add, copy, delete, import, export			✓	✓
DGI Layouts				
View library			✓	✓
Add, copy, delete, import, export			✓	✓
Directives				
View library	✓	✓	✓	✓
Add, copy, delete, edit, import, export	✓	✓	✓	✓
Translators				
View library	✓	✓	✓	✓
Add, copy, delete, import, export			✓	✓

Supported Platforms and Specifications

Operating System	Database Compatibility	Browsers
<ul style="list-style-type: none"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows 11 (64-bit) • Windows 10 (64-bit) 	<ul style="list-style-type: none"> • Microsoft SQL Server 2019 • Microsoft SQL Server 2019 Express • Microsoft SQL Server 2017 • Microsoft SQL Server 2017 Express • Microsoft SQL Server 2016 • Microsoft SQL Server 2016 Express 	<ul style="list-style-type: none"> • Microsoft Edge • Google Chrome

Input Data Formats	Cards	Payment Applications
<p>Out-of-the-box support for:</p> <ul style="list-style-type: none"> • Magstripe • Magstripe + delimiter separated values (DSV) • Capability to implement translators for custom input data formats 	<ul style="list-style-type: none"> • Example Java card profiles included • With advanced features option, self-service capability to add new card profiles (GolbalPlatform, Common Perso, Java card), including DGI layouts 	<ul style="list-style-type: none"> • Visa and Mastercard product templates included • With advanced features option, self-service capability to add new card products, including terminal DGI layouts