F fime

Card Spy

Analyze communication between smart card and terminal.



Overview.

Card Spy offers an unmatched solution for analyzing cardterminal communication. It is both contact, contactless and allows to investigate any problems that may occur during this interaction.

Easily investigate and troubleshoot cardterminal communication.

It provides an ideal tool for troubleshooting interoperabilityrelated problems between cards and card accepting devices, such as EMV® payment terminals (POS or ATM), eMRTD readers and AFC readers. **Card Spy** supports crossindustry data interpretation on contact and contactless communication.

How it works.

Card Spy provides an automatic interpretation of smart card commands and responses. It shows the exchange of data between a smart card and card acceptance device in a clear, logical, understandable manner on your screen.

Fime can help you at any stage of your project lifecycle.



Key benefits

- In-depth spying of communication between the smart card and the terminal.
- Assists in fault cause analysis of interoperability problems.
- Gain insight to application logic with comprehensive reports.
- Save time through fast analysis.
- Easy to use.

Key features

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- Provides automatic interpretation of smart card commands and responses.
- Display data exchange between a smart card and card acceptance device in a clear, logical, understandable manner on-screen.
- View cross-industry data interpretation on contact and contactless communication.
- Works with industry-proven hardware SmartConnect (contact/ contactless), SmartLink Box (contact) and SmartWave Box (contactless).
- Card Simulator is included in Brand Test Tool (BTT).

Specifications for contactless cards.

Generic

 ISO 14443: Provides low-level data interpretation for type A or type B card protocols, Radio Frequency -on and Radio Frequency -off events.

Payment

Provides application data layer interpretation according to the following specifications:

- American Express ExpressPay.
- Interac Flash.
- Mastercard PayPass.
- Visa payWave.

E-identification

 ICAO (International Civil Aviation Organization): Provides application data interpretation according to ICAO specifications.

Transit

• MIFARE DESFire: Provides application data interpretation according to MIFARE specifications.

Specifications for contact cards.

Generic

- ISO 7816-3: Provides low-level data interpretation for T=0 and T=1 protocol, clock changes and supply voltage events.
- ISO 7816-4: Provides application data layer interpretation according to the ISO standard payment.

Payment

Application data interpretation adheres to EMVCo specifications. The data interpretation also includes the proprietary data elements specified by the payment schemes, such as Mastercard, Visa, American Express, Discover, etc.

What's in the box?

Available hardware.

- Contact & contactless spying: SmartConnect.
- Contact spying: SmartLink Box.
- Contactless spying: SmartWave Box.



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Contact

To learn more about how Fime can help your business: fime.com sales@fime.com F-T-CARDSPY-A Card-terminal communication analysis tool.

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