

MODS™ EMV ToolKit for Internet applications

The purpose of the Mercury Tool kit is to help WEB designers, kiosks manufacturers and smart card integrators for fast development including MasterCard Open Data Storage. All specific components are IN LINE with MasterCard rules.

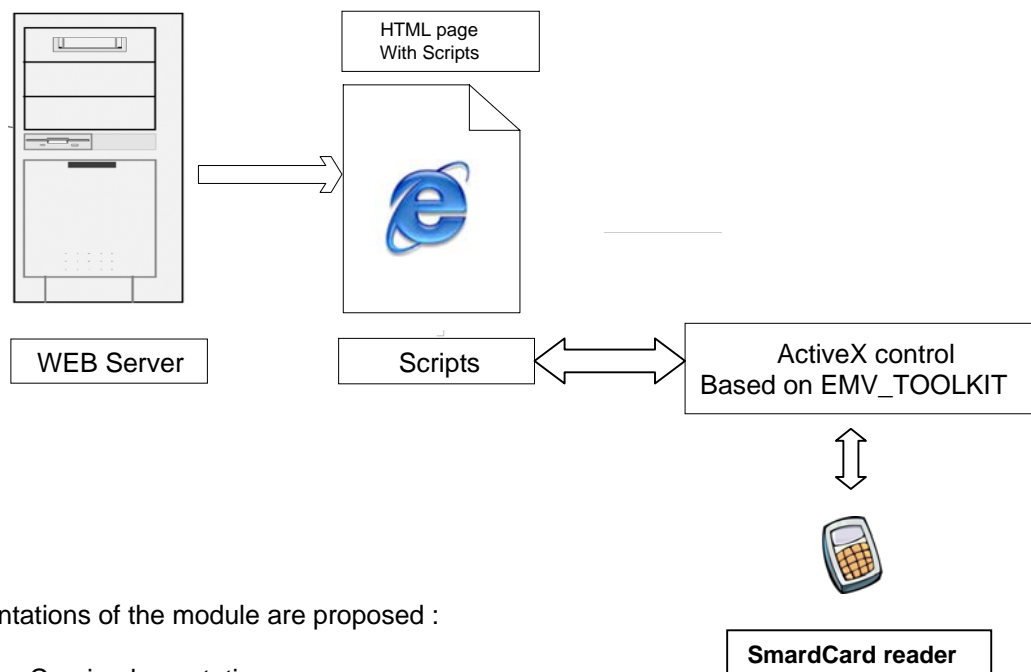
Each specific application is IN LINE with MasterCard recommendations.

Main objectives of Software Development Tool Kit are:

- To offer software libraries for WEB services implementation and for non smart card specialists
- Pre-approved software libraries in accordance with EMV migration
- Improve transactional security for MODS implementation
- Deployment through HTTP, HTTPS mode

Key services and applications targeted are:

- Web environment uses
- Internet POS
- Smart Card initialization through Internet
- Data storage and loyalty applications (XLS, other..)
- e-Commerce applications



Two implementations of the module are proposed :

- C++ implementation
- ActiveX implementation

The Mercury Technologies Toolkit implements classes for use Smart Card applications in a PC/SC environment under Windows Operating System.

- Basic module for (low level) EMV functions,
- MODS™ Toolkit for MasterCard Data Storage application.

Basic modules contains :

- ResManApi Ressource manager API
- ReaderApi Reader Management API
- CryptoApi Cryptographic API
- DataApi Data Management API
- CardApi Card Management API

MODS modules contains :

- ModsCardApi Mods application API

Reader and Ressource Manager functions	Mods functions (*)	Other Mods High level functions
EstablishContext	Dir	LastError
ReleaseContext	DeleteData	StatusWord
GetNbReaders	DeleteDataContainer	Fci
GetFirstReader	ChangeUnblockKey	GetMacResponseData
GetNextReader	ChangeKey	GetNbContainers (*)
Connect	UnblockKey	GetFirstContainer (*)
Disconnect	SetContainerAccessConditions	GetNextContainer
Reconnect	SetAccessConditions	GetNbDataObjects (*)
BeginTransaction	Unlock	GetFirstDataObject (*)
EndTransaction	Lock	GetNextDataObject
ReaderName	DataObjectLength	ParseFirstDataObject
Atr	DataObjectAccessConditions	ParseNextObject
ActiveProtocol	ContainerAccessConditions	GetDataObjectValue
CardReaderState	ContainerUnblockKeyTryLimit	
	ContainerUnblockKeyTryCount	
	ContainerKeyTryLimit	
	ContainerKeyTryCount	
	ModsLock	
	ModsPinTryLimit	
	ModsVersionNumber	
	ModsPinTryCount	
	ModsSecuritySetting	
	GetData	
	PutData	
	CreateDataContainer	
	Verify	
	GetChallenge	
	SelectDataContainer	
	Select	

SDK delivery package including :

- CD rom with User Manual & Contact and contactless smart card reader
- Training Paris or Brussels on request