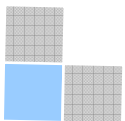


EMV SERVICES



EMV is a de facto standard for Debit & Credit cards, for chip based transactions. EMV will mean that the current magnetic stripe financial cards will be replaced with Smart cards in the forthcoming years. The change is a major one; there are currently billions of Debit & Credit cards and millions of financial Transaction terminals. The issuers have also need for a more multi-faceted card, beautifully enabled by the decision to implement the EMV on a smart card.

ISSUER NEEDS

EMV implementation is a Complex technology and business project. It requires a specialist to have a smooth roll out .The implementation process includes

- a) Selecting the application to offer
- b) Selecting the card
- c) Issuing the card and
- d) Getting the approvals

OUR OFFERINGS

To give a clear vision of the forthcoming migration challenges, we offer the following:

DATA GENERATION FOR CARD PERSONALIZATION

The Main Customer Data base is handled through a Card Management System by the issuer. The data for Card Personalization will be generated through Card Management System. The specific data pertaining to chip personalization need to be generated .This could involve deriving components based on cryptography like DES, 3DES and PKI.

The implementation process includes

- Selecting the application to offer
- Selecting the card
- Issuing the card and
- Getting the approvals

Our Offerings

- Data Generation for Card Personalization
- Card Personalization Management
- Card & Chip Personalization Programs
- Cryptographic Key Management Solution
- Consultancy Services

ID	Task Name	Duration	Predecessors
1	Project Start	20/06/2017	
2	Pre-Project Meeting	1 day	
3	EMV Scheme Selection	1 day	
4	Card Selection Process	2 days	
5	Chip Card OS determination	1 day	
6	Key Length determination	1 day	
7	Determine Chip size requirement	10 days	6
8	Identify Chip vendor	5-6 days	7,5,6
9	Card Layout Design	2 days	
10	Card Design Approval Process	2 days	9
11	Acquiring Sample Card (Test cards & design layout)	1 day	9
12	Order Plastic	1 day	11,10,9
13	Profiling Schemes	2 days	
14	Review EMV parameters BIN wise	1 day	
15	EMV parameter setup (Credit)	1 day	14
16	Data Preparation Process	1 day	9
17	Co-ordinate to finalize data format	1 day	
18	Coordinate for activities & customizations	1 day	
19	Personalization Solution	20/06/2017	
20	Personalization equipment selection	1 day	
21	Personalization software selection	1 day	
22	Order Perso solution	6 days	21,20
23	Installation and Implementation of Perso solution	10/06/2017	22
24	Key Management	2 days	
25	Acquire transportation Keys from Card Vendor	0.5 days	22
26	Acquire Key Emulation Key	0.5 days	25
27	Generate Keys	1 day	25
28	Integrated Testing	1.75 days	43,42,41,39
29	Card type application approval process	7.5 days	44
30	CIB Plan	17/06/2017	
31	Documentation	20/06/2017	
32	Get NBR document templates	0.5 days	
33	System Study Document	0.5 days	33
34	Gap Analysis Document	0.5 days	34
35	Project Scope Document	0.5 days	35
36	Project Plan	0.5 days	35
37	Project Charter	0.5 days	36,35
38	Issue/track and resolution log	0.5 days	
39	Operation procedure	1 day	40
40	Roll back Plan	0.50 days	34
41	NBR Upgrade and regression test acceptance	1 day	

CARD PERSONALIZATION MANAGEMENT

Card Personalization Management becomes more relevant when smart card as are being introduced, as the cost of the card is quite significant and a better tag on the usage is essential .We offer a package to cater the needs of inventory, production management and dispatch tracking, which forms the core of a Production Centre.

CARD &CHIP PERSONALIZATION PROGRAMS

The chip writing on the personalization equipments and environments need lots of scripting and customization depending on the applications and data desired to be put on the chip. We offer these custom made scripts and programs, which can perform the task of chip personalization.

CRYPTOGRAPHIC KEY MANAGEMENT SOLUTION

The Cryptographic modules are required to perform the Cryptographic operation of DES, 3DES and PKI while preparing data for the chip as well as at the time of personalization. We offer secure ways to enter as well as store Crypto Keys. The solution works with Hardware Security Module (HSM).

CONSULTANCY SERVICES

We are into EMV implementation projects for various Banks and Bureaus for the past five years. With our in depth experience in implementing EMV projects, we can offer end-to-end EMV implementation services.

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