

## APPLICATIONFRAMEWORKS

creating value



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Application Frameworks (AFW) has been delivering enterprise level software development services for more than 5 years.

AFW consults on, designs and develops high volume, online and/or offline financial and operational transaction systems.

AFW has extensive expertise in business analysis, standards development, telecoms technology, point of sale, mobile device and smart card software development.

Based in Cape Town we currently have 15 specialist employees, the majority of whom are from an IT/engineering background.

Participation in projects is on a risk sharing, partnership basis or on a time & materials basis, as befits a particular opportunity.



<i>Utilities:</i>	Prepayment electricity, engineering/meter management, asset tracking
<i>Financial:</i>	Revenue collection, complex tariff engines, p2p money transfer, systems integration
<i>Driving License, Vehicle Registration and e-Passport:</i>	consultative approach bringing expertise in smart card technology, business analysis and the development of standards and RFPs
<i>GSM:</i>	high volume billing and administration systems, mobile voucher distribution
<i>Document Storage Management:</i>	record, track, locate and retrieve physical files in complex storage facilities
<i>Postal:</i>	modern digital postage

## e-Passport

**Challenge** - In terms of the International Civil Aviation Organization (ICAO) 9303 regulations, member states will be required to issue e-Passports by 2010. The challenges are immense, particularly in understanding the different technologies that are being adopted around the world. It follows that countries must be able to interrogate and verify the e-passports of other states at their Border Control Points. Issuing States will be required to set up a Key Management and Distribution Infrastructure to send and receive keys to and from partner states. The storing of biometric information on e-passports adds a further dynamic of complexity. Issuance procedures will also need to be reviewed.

**Solving** - With so many important aspects to consider, member states need to consider their choices carefully. Decisions need to be made based on security, law, complexity, overall implementation cost and regional / economic standards. An impact study must be developed to evaluate and describe how the new technology will integrate with existing systems and issuance procedures. Much of the proposed technology is still in its infancy and carefully monitoring the developments in other countries can greatly assist others from repeating the same mistakes and learning from them. Above all, adopting a conservative implementation plan with "buy in" from all parties will be a crucial success factor.



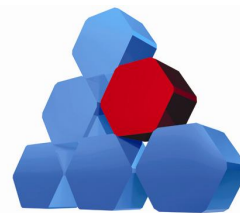
**with Application Frameworks** - Ultimately the successful implementation of e-passports for a member state will depend upon thoroughly understanding and integrating the technology into its systems and processes in as seamless a manner as possible. Application Frameworks has a thorough understanding of both smart card technology and the ICAO 9303 regulations. We have extensive experience in the analysis of business processes and the development of national specifications and RFP's. We would welcome the opportunity for you to put us to the test.

## Driving License, Vehicle Registration

**Challenge** - Governments around the world are keen to take advantage of the benefits of utilising Smart Card technology for Drivers Licenses and Vehicle Registration. Competing Smart Card Technologies and the complexity and effort required to fully understand and develop a national requirements standard can easily prevent this objective from becoming a reality. Very often too much attention is paid to the smart card itself and too little attention on the system and its prospective users.

**Solving** - It is important to weigh the relative advantages and disadvantages of utilising standard ISO Smart Card standards with some of the more advanced manufacturer specific features. Governments must recognise the importance of developing a clear, all encompassing and nationally accepted requirements standard and ensuring that there is "buy in" from all parties. Understanding the System Integration requirements and changes to existing business processes is a critical success factor. The implementation plan must be carefully and conservatively defined, particularly with respect to the rollout of cards to the public.

**with Application Frameworks** - we have a thorough understanding of how smart card technology is applied in Drivers Licenses and Vehicle Registration. Our extensive experience in business process analysis and the development of standards and RFP's, allows us to adopt a wider perspective when developing a national requirements specification.



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