



Card Management Systems

Cogito CMS

What is CMS?

A card management system manages the lifecycle of Smartcards. Smartcards are a credit card sized card, with a chip in them that can be used to provide logical network access to computer systems, physical access to facilities and to secure and authenticate digital transactions. A CMS manages such a card into production, through its useful life and manages its retirement from use. It does this with a high level of auditing and security.

“A CMS manages smartcard deployments in a secure and auditable manner.”

“Some CMS's can provide other capabilities in addition to the traditional card management role.”

Cogito Group offers solutions covering all areas of digital identity and security including:

- Card management systems
- Public key infrastructure

What are the benefits?

In a medium to large organisation it becomes extremely difficult to manage credentials (such as cards) by traditional methods such as using a stock management system or an excel spread sheet. These methods also don't address security and auditing requirements that usually come with a large-scale deployment of smartcards.

A CMS manages smartcard deployments in a secure and auditable manner. It allows an organisation to:

- Issue the card
- Personalise the card with authentication capability
- Manage the card post-issuance from a central location

What are they used for?

A CMS personalises cards to meet certain organisational requirements. This can be accomplished in several ways:

- Inserting 'secure' credentials onto the card
- Printing the card
- Identity Management capabilities such as:
- Evidence of Identity (EOI) and personal information capture



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- Biometric capture
- Logical Access Control System (LACS)
- Physical Access Control System (PACS)
- Instantiate and manage card applets (small on card applications)
- Other forms of credential management such as Mobile device credential management, OTP and soft token management.

CAMS vs CMS

Smartcards can have applications (called applets) installed on them. A Card Application Management System manages these card applications, whereas the Card Management System manages the cards. Some CMS vendors are now introducing CAMS functionality into their CMS's.

Some examples in use today

There are several large examples of card deployments today. One of the largest is the US Department of Defence, which has millions of cards issued. While this is the largest deployment within a single agency, the US Federal Government would be considered the largest body to implement cards. This is because in 2004, they issued a mandate (HSPD-12) that indicated that they all Federal agencies would be required to improve the quality of forms of identification. The outcome of this is that all Federal agencies are now required to have a smartcard solution.

In Australia, the largest deployment of cards is also with an Australian Federal Department. The former Centrelink (now part of DHS) issued approximately 30,000 smartcards providing logical and physical access.

Other government departments also have smaller solutions such as the Department of Defence. Other organisations to implement this technology include the UK National Health Service, Lockheed Martin, Boeing, G & D, Booz Allen Hamilton, Nissan and the World Bank.

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Cogito Group is an award-winning ICT company specialising in authentication, cloud security, identity management and data protection. Cogito Group protect the authentication methods used to access information through the use of Identity and other security technologies.