



# Biometric Data Capture System

Committed to Defence

Biometric Data Capture System (BDCS) is a solution developed by Steria for the UK Ministry of Defence (MOD). The system has revolutionised the way in which access control to secure sites is managed. Designed to verify identity reliably and quickly, BDCS uses multiple biometric criteria to check and guarantee the identity of an individual.



The BDCS uses cutting edge technology incorporating the latest practices developed and delivered by Steria. It is an excellent example of Steria's capability in the field of identity assurance and demonstrates innovative use of biometrics technology.

BCDS is a highly complex biometric solution for the MOD that is considered to be an important tool in securing Military facilities. It uses finger and iris recognition to positively verify individuals' identities and consists of both static and mobile biometric components. The system is currently operational across 22 military sites with a core, forensic level, biometric database that can be extended as required.

A subject is enrolled onto the system by entering biometric and demographic details. During enrolment each iris, all 10 fingerprints and a facial photograph are captured. Biographic details, like surname and forename, are also collected. This data is regularly synchronised between the mobile and fixed systems to ensure that users always see the same, up to date, information.

Identity duplication checks are conducted by the system to prevent an individual registering more than once, an important step in the enrolment process. Following approval an individual is issued with an ID smart card displaying a facial photograph and biographic details. This card is used to access biometric information as required.

BDCS is being used to provide access control for entry into UK bases for locally employed civilians.

- An individual presents their ID card to the guard who will:
  - a. Conduct a visual comparison of the ID card photo against the individual
  - b. Use the ID card to access and verify biometric information
- The individual also looks into the iris camera for comparison with the loaded template
- The system will then verify the individual and provide a visual display to the guard to allow access
- BDCS will also display an alert if an individual is not allowed entry.



// Using its touch-screen display, information can be quickly input using the supplied stylus or entered whilst wearing standard military gloves. Identification is fast and efficient with an iris one-to-many search across the large onboard database taking only three seconds.

For mobile identity verification the solution includes biometric devices which are ruggedized and sized so they can be easily carried. The mobile multi-modal biometric device is capable of registration and verification functions including capturing:

- Both irises
- All 10 fingerprints
- A digital facial photograph and distinguishing marks
- Biographic alpha data.

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#### Operation

An operator can check an individual's ID card, irises and or fingerprints and confirm a subject's identity within a few seconds, which is key, with a throughput of several hundred people to be processed every hour by each operator station.

In the event that a card is lost or damaged, a subject's record can still be accessed using alternative information, and the fingerprint check still provides the required identity verification.

If an individual attempts to gain access to a site using an incorrect or counterfeit ID card, this will be detected immediately by the system.

BCDS also provides a reporting facility allowing the operator to produce instant reports on individuals who have entered or exited the site over a specified period.

#### Service

The system is designed to provide a reliable, high availability security solution, with ease of maintenance to a particular priority, all supported by Steria's ITIL-based, IT service management expertise.



### Steria in Defence

Steria has been a key provider of specialist systems and services to the Ministry of Defence (MOD) for over 30 years. Independence, broad capability and knowledgeable people with a reputation for operational and commercial flexibility have secured our position as one of the MOD's top ten ICT suppliers.

Through our involvement in the LSRC, MJDI, UNICOM and EMS projects we have developed core solutions spanning secure systems, identity management, end-to-end logistics and operational environments.

Our focus is always on establishing strategic partnerships with our customers and delivering innovative, practical IT solutions based on our core capabilities which include:

- Security
- Systems Integration
- Infrastructure Services
- Enterprise and Network Management
- Business Process Outsourcing.

### About Steria

Steria delivers IT enabled business services which help organisations in the public and private sectors operate more efficiently and profitably. By combining in depth understanding of our clients' businesses with expertise in IT and business process outsourcing, we take on our clients' challenges and develop innovative solutions to address them. Through our highly collaborative consulting style, we work with our clients to transform their business, enabling them to focus on what they do best.

Our 19,000 people, working across 16 countries, support the systems, services and processes that make today's world turn, touching the lives of millions around the globe each day.

Founded in 1969, Steria has offices in Europe, India, North Africa and SE Asia and a 2008 revenue of €1.8 billion. 16.5% of Steria's capital is owned by its employees. Headquartered in Paris, Steria is listed on the Euronext Paris market.



## contact

Steria Limited, Three Cherry Trees Lane, Hemel Hempstead,  
Hertfordshire, HP2 7AH  
Tel. +44 (0) 1442 885600  
[www.steria.co.uk/defence](http://www.steria.co.uk/defence)  
[defence.office@steria.co.uk](mailto:defence.office@steria.co.uk)