

CrimTrac Technical Environment Overview

CrimTrac develops, supports and enhances a range of national information sharing solutions for law enforcement. The development of these solutions is undertaken in partnership with the Commonwealth, state and territory police services and includes national fingerprint matching, national DNA matching, national criminal history checking and a range of police systems to identify people, vehicles and firearms across state and territory boundaries.

The CrimTrac ICT environment consists of midrange and z/OS mainframe based systems. Midrange systems are backed by SAN storage and are hosted on UNIX servers as well as rack mounted Intel servers running VMware. CrimTrac's enterprise services include messaging and middleware through the IBM WebSphere broker, security, audit, application development technologies and the provision of application environments. Midrange applications are developed using Oracle as the database backend and with Java/J2EE and the Spring framework for application services and the Struts framework for web based user interface. Mainframe applications are written in COBOL, use IBM WebSphere MQ for messaging, run under CICS and persist data to DB2.

Midrange and mainframe applications are typically created as federated applications and incorporate extensive interoperability with state and territory based systems. The applications are heavily reliant on messaging middleware to communicate over a range of protocols and message formats.

CrimTrac is implementing service management processes based on the ITIL Service management framework.