

**INTRODUCTION**

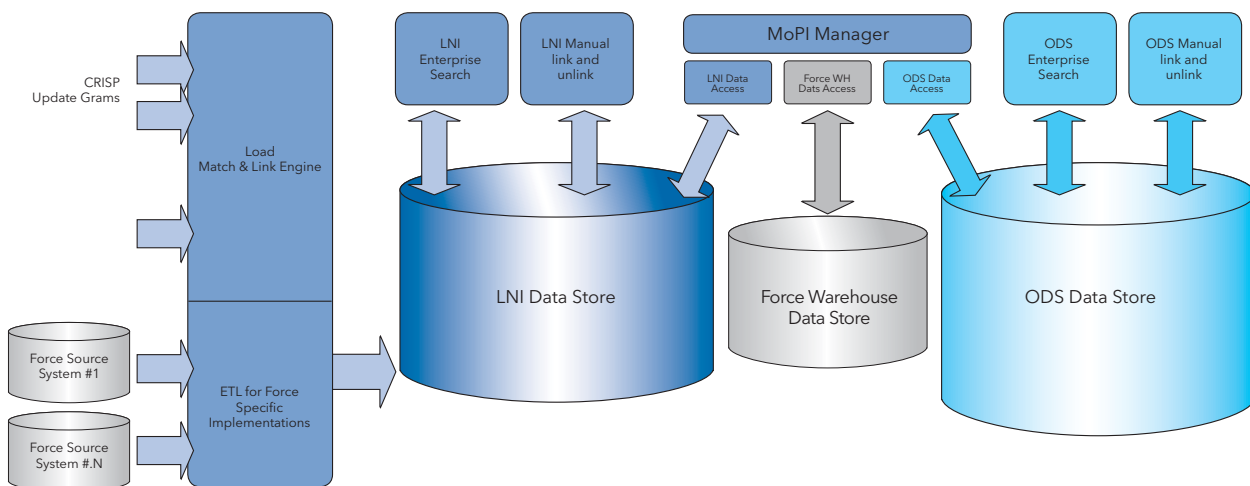
Today's drive for police forces to manage and share correct information efficiently is unprecedented. Forces are required to execute their day to day business data processes in line with a range of statutory requirements, initiatives, guidelines and codes of practice, such as the National Intelligence Model (NIM), the Manual of Guidance for the Management of Police Information (MoPI), and the Policing Performance Assessment Framework (PPAF). To meet these demands, forces have recognised that they require information solutions which provide an enterprise view of criminal intelligence and business intelligence data.

In consultation with a number of UK police forces, SunGard is developing and rolling out a SunGard Public Sector Police Information Management product to deliver enterprise wide solutions with the following benefits:

- Single point of search and analysis of criminal intelligence data, within crime enquiry and intelligence analysis, reducing the need to carry out multiple searches on source systems.
- Cost effective and risk minimised management of police information delivered through user assisted workflow in line with the MoPI Manual of Guidance.
- Cost efficient development of intelligent product, using the enterprise wide view of operational criminal data, coupled with a single point of search and/or business intelligence reporting and analytical tools.
- Cost efficient delivery of performance reporting using enterprise wide view of both business and criminal data, coupled with business intelligence reporting data mining and tools.

**THE SOLUTION**

The Police Information Management product suite is illustrated diagrammatically below. The solution is comprised of three products; the Local Nominal Index (LNI) Product Suite, the MoPI Manager Application and the Operational Data Store (ODS) Product Suite.



## LNI PRODUCT SUITE

The database and applications within the suite are:

- The LNI Data Store - provides a consolidated 'Golden Record' nominal model which links to business records, addresses, offences and warnings.
- The Load Match and Link Engine - transforms source data into CorDM compliant values and computes nominal matches against force specified match rules at the point of loading the LNI data store. The match rules are ranked to allow automatic linkage at the point of load as well as manual linking through a web browser interface.
- The LNI Enterprise Search - provides web based, enterprise level nominal searching across the LNI data store.

Results presentation provides drill down to expose details of linked business record, linked addresses, offences, warnings and nominal details. Users can view and record notes against nominal data, and issue emails to force data administrators.

The LNI application is accessed via a web portal. The LNI product architecture provides full auditing of user activity. In addition, and to assist data administrators, a full lifecycle audit is recorded against nominal records. The architecture includes role based functional access and GPMS compliant record access, integrated with the LDAP compliant directory services. The user interface (UI) also provides system maintenance functionality.

## MOPI MANAGER APPLICATION

The MoPI Manager Application delivers centralised, and enterprise wide, business workflow for the retention, review and disposal (RRD) of police data in line with the MoPI Manual of Guidance. The application includes configurable RRD work flow to allow forces to adhere to best working practice and pragmatically manage the RRD process. The application also provides suggestive risk group classification based on force specified rules and corresponding suggestive retention status and review dates. The application can be configured to allow automatic review, and disposal for specific risk group classifications in line with force specific MoPI policy.

The MoPI Manager Application is a web browser application, and integrates to

the audit and security modules within the LNI product architecture as outlined above. The application can be fully integrated within the LNI web portal framework, delivered as a stand alone application or integrated within Microsoft Sharepoint.

The database access components of the MoPI Manager are developed to allow the application to reside on the LNI Data Store or the ODS Data Store. With appropriately developed system specific database access modules, the MoPI Manager can alternatively reside on any force specific data store which supports a sufficient level of consolidated 'Golden Record' nominal data.

## THE OPERATIONAL DATA STORE (ODS) PRODUCT SUITE

To meet the growing demand for police warehouse and business intelligence solutions, SunGard is currently developing the ODS product suite.

The ODS Product Suite will extend the LNI product suite and provide a comprehensive criminal and business intelligence data warehouse solution with supporting enterprise free text and structured searching. The MoPI Manager Application will require ODS specific database access, to integrate with the ODS data store, providing a seamless migration for forces moving from the LNI Product Suite.

The ODS data model, as well as being extended to support CorDM compliant rich data sets, includes consolidated modelling for the major police subjects, such as vehicle, organisation etc. The load match and link engine and manual link features support matching, and linkage of the major police subjects.

The ODS Enterprise Search supports structured searching over the range of police subjects and business records. The architecture is further enhanced to include a free text search engine to allow indexing of documents, multimedia metadata and structured data to provide a multimedia searching capability.

The ODS product suite supports business intelligence reporting, data mining and enhanced data analysis through the supply of third party business intelligence tool suites.

To extend the range of potential source systems and accommodate a wide variety

of source system database technologies, the implementation of the extract, transform and load (ETL) process, is delivered using leading edge third party ETL tools. The third party ETL will also provide source system data profiling, extend CorDM data mapping and data cleansing and include the resolution of address data against a reference gazetteer data set.

Data access to the ODS is encapsulated at a business level and implemented as APIs and SOA compliant web services.

The ODS is designed as a generic CorDM compliant data model and coupled with the SOA compliant web services, provides simple data compatible integration with other ODS enabled forces for the sharing of police information.

## ENGAGEMENT

SunGard offers a full range of project services to assist with implementation and training, in particular, SunGard technical consultants are available to work collaboratively with forces on specific ETL aspects, system sizing, resilient hardware and software solutions.

The LNI Load Match and Link Engine provides integration with source systems via CRISP Updategrams, or source system specific change data capture and extraction. Source system specific extraction can be implemented using third party ETL tools or dedicated extraction code as part of a SunGard consultation service.

## **ABOUT SUNGARD PUBLIC SECTOR UK**

SunGard Public Sector UK serves a wide range of customers - public safety and justice agencies, local and central government and third sector organisations. Solutions include public safety and justice applications as well as managed services and management consulting. In the UK more than 50 million citizens - 86% of the population - are served by agencies that rely on SunGard Public Sector solutions.

**[www.sungardps.co.uk](http://www.sungardps.co.uk)**

## **ABOUT SUNGARD**

With annual revenue of more than \$4 billion, SunGard is a global leader in software and processing solutions for financial services, higher education and the public sector. SunGard also helps information-dependent enterprises of all types to ensure the continuity of their business. SunGard serves more than 25,000 customers in more than 50 countries, including the world's 50 largest financial services companies.

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