An Oracle White Paper
March 2014

Oracle Master Data Governance Solutions for Justice and Public Safety Organizations
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Executive Overview

The Issues

Police and law enforcement agencies around the world have long recognized the value that information plays in helping to prevent and solve crime successfully, and so have been early adopters of information technology to help them manage the data involved.

However, most organizations have developed separate systems to deal with separate aspects of their business, focusing on a specific problem or requirement. This has led to a proliferation of disconnected, silo systems with much replication of data, and this data is often inconsistent between systems. This means that an officer has to spend time accessing multiple systems, and making decisions about which set of data to trust when trying to build a complete picture of a situation, offender, location or other item of interest. This scenario is further complicated by the need for those law enforcement agencies’ systems to be integrated with other ministries’ and agencies’ systems and registries. These fragmented environments are creating significant data quality and integration problems, which are leading to broken business processes. They are negatively impacting investigations, emergency management, border control, courts and correctional operations, generating inefficiencies and corrupting analytics. For example, fragmented inconsistent criminal and crime scenes data affects proper crime prevention and prosecution, resulting in higher risk, and introduces extra costs.

Moreover, law enforcement agencies now need to cooperate with other law enforcement agencies both in neighboring jurisdictions, and internationally, as crime has become an increasingly globalized issue. In order to be able to share information effectively, the police agency needs to first determine its own view of the best set of information held on the relevant topic, from the multiple systems that the information is spread across. This information has to be shared in a secure way, between organizations that have established the relevant level of trust.
Increasingly, social networking is impacting traditional law enforcement. It is both a threat and an opportunity. Unfortunately, data from social networking is highly unstructured, not in proper syntax, and usually in slants/acronyms. Data quality is definitely a major challenge.

The Constraints

Despite having to address complex crime problems every single day, law enforcement and public safety agencies have limited and sometimes shrinking resources. These agencies have to prevent and respond to crime on one hand, while driving effective management of limited resources and controlling costs, on the other. Law enforcement and public safety agencies are challenged with combating crime with diminishing resources and reduced budgets.

The Solution

Having a clear, unambiguous view of information about people, the areas, sites and locations, evidences and other objects, and events is critical for successful justice and public safety key issues. Such information is termed master data, which is the key critical information supporting the transactional and analytical operations of any organization. Data governance is the discipline ruling the way an organization as a whole takes care of master data quality throughout its entire lifecycle, independently from where it is stored, and Master Data Management (MDM) and Data Quality (DQ) are the core technologies supporting it. Good data governance results in significant improvements in operational efficiency, reporting, and fact based decision-making. Data governance is the only viable way justice and public safety organizations can take full control of data quality, and is proving itself to be very successful in leading organizations around the world. The idea of a high quality common view of key data is not new in the IT industry, but today’s technologies (e.g., data cleansing, data enhancement, master data management, process orchestration and integration), advancement in processes and methods, and understanding of data governance far exceeds what was available and implemented even 10 years ago.

Oracle’s technology components are ideal for data governance, and Oracle’s pre-built master data governance and data quality solutions for key master data objects such as such as
People (e.g. victims, witnesses, suspects), Objects (e.g. weapons, vehicles, equipment), Locations (e.g. crime scenes, critical infrastructures, exclusion areas) and Events (e.g. crime incidents, arrests) and more can bring real business value in a fraction of the time it takes to build from scratch. Oracle’s fusion of applications and technology creates a solution superior to other data governance offerings on the market.

Many justice and public safety organizations are realizing the promise of consolidated, clean, consistent master data feeding their operational and analytical systems. Organizations are achieving that elusive goal: a single version of the truth about their business across the organization.
“We used Oracle technology to drastically reduce administrative costs and introduce standardized processes and procedures to the way we collect data. Oracle’s products integrate seamlessly—and at low cost—with our existing data-collection systems.”

Ron Richardson,
Head of Information Systems and Technology Durham Constabulary

Where Data Quality Issues Start

Justice and Public Safety (JPS) organizations such as Police Departments, Courts, Counter Terrorism Units, Border Control, Intelligence Agencies, Emergency and Disaster Services, and Civil Protection need a trusted environment for sharing critical information across departments and jurisdictions, identifying trends and patterns to anticipate and prevent incidents, and reducing and combat crime and terrorism with the limited resources they have. Many of these organizations currently do not have such an environment. On the contrary, very commonly they have a very complex architecture with tens or even hundreds of systems and applications, which means that they do not have a clear view within the organization of the complete information about a person, place or object. Without this organizational view, it is very hard to share such information with partner organizations. The external organizations that they integrate with often have similar problems, and so are often providing not 100% reliable and inconsistent data back to the organization. This creates internal inefficiencies, and can lead to vital needed information being missed or just found too late.

Figure 1: Typical IT architecture of a Justice and Public Safety organization.

Typical JPS Organizations Journey To Find A Solution

This is the challenge that justice and public safety organizations have faced for many years. Service Oriented Architecture (SOA) and/or Agile Process Orchestration are helping to automate business processes across disparate applications, but the data fragmentation remains.
The point is that in many cases the various information systems which will have to be interconnected contain overlapping data. In addition to that, in some of those information systems there may still be some missing information or some information not really up-to-date, or even some data errors (maybe data syntactically correct, but semantically wrong). With this kind of architecture, there's no automatic way to stop errors from being propagated all across, or to fix data inconsistencies once and for all. So, normally, IT has to dedicate many resources on fixing those data quality issues.

Figure 3: Data Marts / Warehouse help but don’t eliminate data quality issues at data sources.

Master Data Governance: The Only Viable Solution

Data Governance is the only solution. Data Governance is an organizational discipline involving key decision makers, business and IT personnel and specialized tools (which we will call Data Governance platform) to take care of data quality within the data lifecycle spanning across the whole organization. Data Governance applied to key business entities (master entities) is called Master Data Governance.

The Master Data Governance platform must seamlessly integrate with modern Service Oriented Architectures in order to govern the master data across the many systems that are responsible for data
entry, and bring the clean corporate master data to the applications and processes that run the business. Master data governance becomes the central source for accurate fully cross-referenced real time master data. It must seamlessly integrate with data warehouses and the Business Intelligence (BI) systems, designed to bring the right information in the right form to the right person at the right time. In addition to supporting and augmenting SOA and BI systems, the master data governance application must support data governance. Master data governance enables orchestrated data stewardship across the enterprise.

![Figure 4: Data Governance is the only solution to fix data quality issues.](image)

Therefore Master Data Governance comprises any master data management, data integration, data quality, business intelligence and data warehouse initiative.

**Oracle’s Approach To Master Data Governance**

Oracle’s Master Data Governance Suite is the only really end-to-end 360° packaged solution available today on the market that enables organizations to get and maintain an accurate and consistent 360-degree view of master data from all systems, whether from packaged, legacy or custom applications, throughout the organization. Oracle Master Data Governance enables organizations over time to set central rules to keep data quality under control and to get synchronized, cleansed, consistent, accurate, enriched and high quality data from a single source of truth, delivering both immediate and long term key business benefits, like improve decision-making, streamline business processes and operations, optimize resource usage, improve threats detection and management, reduce costs and ensure compliance.
Oracle's Master Data Governance Suite is a set of applications and tools specifically designed to consolidate, cleanse, enrich, govern and synchronize key business entity objects across the enterprise and across time. It includes specialized, best-of-breed, predefined and extensible (over time) data models and access methods with powerful applications to centrally manage the quality and lifecycle of master business entities, architected to support operational workloads and service oriented architectures (SOA). Oracle Master Data Governance can really scale with the implementing organization’s needs, as it supports fast deployments and prototyped-based approach, and because each application of the Suite can be deployed either standalone or together with other applications.

Oracle’s Master Data Governance Suite

Oracle Master Data Governance Suite is made up of the following entity-specialized modules:

- Oracle Customer Hub
- Oracle Supplier Hub
Oracle Customer Hub

**Oracle Customer Hub** is the most comprehensive and specialized party data mastering application available in the market today, allowing justice and public safety organizations to centralize party information from heterogeneous systems, providing highly specialized parties and addresses data quality features, and therefore creating a high quality single view of party’s information that can be securely leveraged across all functional departments and analytical systems.

Justice and public safety organizations may consider Oracle Customer Hub to master key entities like Persons, Organizations, Party Groups (like associations, unions, societies, criminal gangs, terrorist groups, etc.) and party related entities, like aliases, accounts, addresses, contacts, contact points, assets, properties, interactions, classifications, relationships, social network accounts, KPIs, and more.

As an example, the Hub is key to provide with secure access control an up-to-date, consolidated and trusted view of a citizen from birth to (eventually) death, including all names and name changes, all addresses and address changes, all properties, all permits, all key JPS-relevant life events (such as witnesses, or crime history, if any), all relationships to other people or organizations.

The strong need for trusted, timely information securely shared with partners represents alone a key motivation for justice and public safety organizations to embrace Oracle Customer Hub as part of their Enterprise Architecture supporting investigative and logistics operations. For those organizations,
typical business processes (both internal and constituents facing) positively impacted by and founded on trusted party Master Data are:

- Investigative Case Management
- Incident & Emergency Management
- Critical Infrastructure Protection
- Border Control
- Terrorism Prevention and Prosecution
- Illegal Immigration Investigation
- Resources Deployment
- Logistics Management
- Mission Planning
- and more…

Justice and public safety organizations will get huge benefits by complementing their business intelligence initiatives with Party Data Management in order to gain better, duplicates-free data analysis like Crime Analysis, Terrorism Analysis, Parties Relationships Network Investigation, Frauds Detection, Immigration Analysis, Intelligence Analysis and Person Identity Matching, etc.

Oracle Site Hub

Oracle Site Hub is unique in the market - enabling the implementing organization to master any kind of site and/or location and/or areas based information (both structured and unstructured), providing out-of-the-box support for geo-coding and map-based data search and navigation. All justice and public safety organizations benefit by being able to centrally represent their unique complex Sites and Locations in a coordinated, yet independent way. Strong user/role based data access control is also provided out-of-the-box in an easy configurable way.

Justice and public safety organizations may leverage Oracle Site Hub to fully represent and master Prospect Offices and Sites, Offices and Buildings, Police/Fire Departments and Stations, Emergency Centers, Hospitals, Weapons Ranges/Training Centers, Courts and Prisons, Suppliers’ Sites, Logistic Sites, Borders & Critical Infrastructures, Incidents/Crimes Locations, Areas of Interest, and more, along with all site sub-entities (such as rooms, floors, etc.).

As an example you could use this hub to centralize and share information regarding a Prison and its components, such as floors, cells, recreation areas, visitor areas, medical area, staff areas, canteen, armory, and more, along with any specific information needed to be mastered as part of any space management, allocation management, security and access management, risk management, asset management and/or any other specific business process and/or analysis.

Site Hub allows to master centrally any sites/locations/areas specific information, being that information structured or unstructured, any site relationships (like parent-child, logistic connections, networks, etc.), and to track all parties related to those sites.

Justice and public safety organizations can get enormous benefits from deploying Oracle Site Hub either standalone or in conjunction with Other Oracle Master Data Governance Suite modules.

In fact Oracle Site Hub can be a key component of a new enterprise architecture created to effectively Analyze, Plan and Act on Threats and Crimes information, by:
• Consolidating Police Departments and Stations, Courts & Prisons, Borders & Critical Infrastructures, Incidents/Crimes Locations, Areas, etc. and all related parties and assets
• Support the identification and protection of all elements of the Critical National Infrastructure, such as power stations and bridges.
• Supporting Site/Location based Analysis and Projection on available resources, provisioning and logistics, and incidents and crime locations and areas Basis for Site Security and Access Management
• Securely sharing in real-time trusted information across jurisdictions, agencies, forces and commands for faster emergency response
• Provide key services to be leveraged by all key business processes

Oracle Site Hub will also help streamlining the usage of the agency’s limited resources, by providing the ability to:
• Consolidate Buildings & Offices, Police Stations, Courts & Prisons, Polygons/Training Centers, Suppliers’ Sites, Logistic Sites
• Perform analysis based on consolidated and reliable site data, including all related resources, like: Active Personnel, Site Procurement, Site Provisioning and Logistics, etc.
• Manage Assets and Control Costs Throughout Lifecycle

Oracle Supplier Hub

Oracle Supplier Hub is also a unique product in the market. It provides all the tools needed to onboard, evaluate, and manage suppliers across their lifecycle. It further guarantees that the supplier data is itself cleansed and trustworthy by creating one enterprise-wide, single view of the supplier data. Secure access to supplier data is controlled by fine-grained data security rules associated to users/roles. The implementing organization will be able to track spending and performance better, enforce compliance and standards on suppliers, and handle supplier risk to streamline how to deal with suppliers across the organization.

Justice and public safety organizations may leverage Oracle Supplier Hub to master any Supplier or Contractor and its related entities, like aliases, agreements, bank accounts, addresses, contacts, contact points, classifications, relationships, KPIs, and more.

Oracle Supplier Hub is fundamental for streamlining Procure to Pay, Corporate Governance, Risk and Compliance based on suppliers’ master entities, and to improve the quality of the data used for Suppliers Analysis and Score Carding.
Oracle Product Hub

**Oracle Product Hub** enables justice and public safety organizations to centralize all products/services information from heterogeneous systems, creating a single view of products/services that can be leveraged across all functional departments. Oracle Product Hub provides a set of tools for data stewards and catalog managers to easily administer, govern and maintain structured and unstructured product data within the hub; for other users who simply need to search, view, request or approve new items / changes to items, Oracle Product Hub provides the capabilities for unlimited users to address these needs. Strong control on data quality, data access and change management are also provided.

Justice and public safety organizations can deploy Oracle Product Hub to master entities like (but not limited to) Purchasing Items (Products, Services, Goods, Equipment, Vehicles, Weapons, Materials, Spare Parts, etc.), Items Hierarchies and Relationships (including Configurations, Catalogs, etc.), Related information (Items Locations, Polices, Suppliers, etc.), Multimedia documents, like warranties, instructions, certificates, specifications, training videos, etc.

Oracle Product Hub helps justice and public safety organizations eliminate products/services data fragmentation, streamlining the procurement process across all their legacy and best-of-breed applications.

Typical business processes positively impacted by (which should be founded on) trusted Item Master Data are:

- Procurement and Provisioning, Supply Chain Management, etc. founded on master entities like Products, Spare Parts, Materials, Goods and Services, Vehicles, Weapons, etc.

Justice and public safety organizations can also complement their business intelligence initiatives with Master Data Management in order to gain better business insight and support with trusted, duplicates-free data analysis like (the following bullets are aligned with the previous business process and master entities ones):

- Product/Services Spend Analysis, Product/Services Compliancy Analysis, Product/Services Quality Rating, Sourcing Analysis, Inventory Analysis and Forecasting, etc.

Oracle Data Relationship Management

**Oracle Data Relationship Management** helps organizations to proactively manage changes in master data across operational, analytical and enterprise performance management silos. Users may make changes in their departmental perspectives while ensuring conformance to organization standards. Whether processing financial master data such as cost center, accounts, and legal entities or analytical master data such as dimensions, reporting structures, or related hierarchies, Oracle Data Relationship Management delivers accurate and timely master data to drive ongoing operational execution, enterprise performance management (EPM) and agility.

Typical business processes (both internal and suppliers facing) positively impacted by (which should be founded on) trusted Master Data are:
• Enterprise Performance Management, Frauds Prevention and Prosecution, Financial Consolidation, Compliance, etc. founded on master entities like Chart of Accounts, Accounts, Hierarchies, Dimensions, KPIs, etc.

Oracle Enterprise Data Quality

Data cleansing is at the heart of Oracle Data Governance ability to turn your data into an enterprise asset. Only standardized, de-duplicated, accurate, timely, and complete data can effectively serve an organization’s applications, business processes, and analytical systems. From point-of-entry anywhere across a heterogeneous IT landscape to end usage in a transactional application or a key business report, Oracle Enterprise Data Quality tools provide the fixes and controls that ensure maximum data quality.

Oracle recognizes that there are three primary data categories: relatively structured party data, partially structured site/location data and relatively unstructured item data. Party data includes people and organizations' names, as well as address, hierarchies and other attributes that describe who a party is. Pattern matching tools are best for cleansing this kind of data. Site data includes Sites, Areas, Locations and Addresses or geographical coordinates, and the full range of attributes that describe what a site is. Location specialized data quality services, possibly with country-based addresses directories are needed to validate and enrich location data. Product/Services Data includes Products, Items, Services, Assets, and the full range of attributes that describe what they are. Semantic matching tools are required for cleansing this kind of data. This is why Oracle provides a single Enterprise Data Quality platform including data quality extensions specifically designed to handle these three kinds of data.

Oracle Master Data Governance Best Practice for Justice and Public Safety

Oracle And JPS

Public Sector is a key industry for Oracle and Oracle is a leader in Public Sector with an unparalleled track record of customer success by providing flexible and open standard based software solutions that ensure investment protection and continue to bring strong innovation to the public sector; and justice and public safety is one of the most important segments in Public Sector for Oracle. Oracle is committed to serving the technology needs of justice and public safety organizations, with a powerful combination of carrier-grade middleware, database technology, decision-support tools and comprehensive, pre-integrated business applications-including key justice and public safety specific functionality.

1 http://www.oracle.com/search/customers
Oracle’s Justice and Public Safety solutions have been developed with a Business-Process Centric approach, automating the entire Citizens-, Suppliers-, Personnel-, Properties-, Logistics-, Vehicles-, Goods-, Services-, Spare Parts-, and Assets-centric value chains, to fulfill the specific needs of public sector agencies. With these prebuilt industry processes, justice and public safety organizations can rapidly design, create and deliver next-generation network centric operations, increase force readiness, improve resources usage, reduce operating costs, and improve reporting and control.

**Master Data Governance Within JPS**

Master Data Governance is critical in order to build a strong and flexible Information Architecture, SOA based, to securely share trusted information, and on which to build effective inter-jurisdiction collaborative processes and analysis. Master data governance positively impacts internal functions and processes, as well as those which are constituent or supplier facing. Particularly important is master data governance’s capability of tracking all parties’ identities and relationships over time, in order to fully support and accelerate the investigation process by allowing users to rapidly uncover the hidden connections and patterns for Crime Analysis, Counterterrorism Analysis, Illegal Immigration Investigation, Intelligence Analysis and Person Identity Matching.

Master data governance is a key foundation to support also Legacy Modernization initiatives, as it provides continuity for all key master entities between the old legacy systems and the new modernized ones.

**Oracle Master Data Governance Within JPS**
Oracle is the only master data governance provider who can deliver a full set of technologies and a comprehensive application portfolio, and whose master data governance solution is built from an application perspective, with strong support for industry business processes and complementarities to applications.

Oracle has leveraged its ability to fuse applications and technology to incorporate Master Data Governance applications as a foundation component for its SOA Suite. Master data governance solves the one problem that can reduce the effectiveness of SOA implementations, by providing cleansed, governed, and authoritative data services in a Service Oriented Architecture. Yet, clean augmented quality master data in its own silo does not bring the potential advantages to the organization. For Master Data Governance to be most effective, a modern SOA layer is needed to propagate the master data to the applications and expose the master data to the business processes. Fusion Middleware is the central technology for Oracle’s SOA strategy. Delivering more than just connectors and templates, Oracle’s Master Data Governance-SOA combination delivers out-of-the-box, fully tested and extensible, pre-built SOA enterprise business processes that synchronize master data stores with applications. SOA and master data governance need each other if the full potential of their respective capabilities are to be realized. In combination, they can have a profound impact on IT. Oracle Master Data Governance as a foundation for SOA raises the bar for both master data governance and SOA. Oracle’s approach insures that the IT transformational potential of SOA is achieved.

Each Oracle Master Data Governance Suite component can in fact be implemented standalone, delivering faster implementation through predefined, specialized and extensible data model and data quality features, can be implemented with other Master Data Management modules, providing the
most complete master data governance solution available in the market today, or it can be part of a broader solution, including other Oracle technology or Applications components and industry specific solutions from Oracle or 3rd Parties.

Figure 10: Oracle Master Data Governance Suite is the foundation for all JPS core processes and analyses.

Following is a partial list of possible justice and public safety scenarios where master data governance can support specific needs and business processes when combined with Oracle and non-Oracle Technologies and Applications:

- Consolidate key master data (also sometimes referred to as nominals) like victims, witnesses, emergency personnel, incidents/disasters locations, weapons and evidences plus emergency centers, police stations, fire stations, hospitals, vehicles and equipment across channels and systems to support timely and efficient delivery of Emergency Services.

- Create a high quality, trusted National/Federal Identity Registry integrated in real time with all the operational and analytical systems within the organization and in the connected agencies.

- Create a secure and trusted repository of all identities, including all known and potential aliases, false data and associations, conspiracies, events, objects (vehicles, weapons, clues, etc.), locations and critical infrastructures which need to be protected, as a foundation for Abuses, Frauds, Crime, Terrorism Anticipation, Prevention and Prosecution, securely sharing
this intelligence data across jurisdictions, and helping homeland security agencies and financial investigation units in resolving identities and identifying trends, patterns and clusters to determine potential threats/frauds and to coordinate evidence collection with investigation.

- Real time secure information sharing and master entity resolution, by means of a strong master data management foundation providing strong access control and supporting integrated analysis and coordinated response, in order enable Inter-Jurisdiction/Inter-Department Collaboration, without affecting ownership and authorship of each information source.

- Securely and routinely integrate critical information in real time from disparate crime and intelligence sources to ensure Effective Mission and Risk Management, while preventing unauthorized disclosure of sensitive information.

- Focus on key trusted data to reduce the entropy originated by too much “buzz” or just partial information from too many systems affecting the capability to Plan and React on Emergencies.

- Consolidate Financial Data across disparate systems and applications to increase the integrity, efficiency, and audit-readiness of the organization financial statements and reporting process.

- Optimize Suppliers Interaction and Defense Procurement, by centralizing all suppliers’ information, their contact points, product/services catalogs and scorecards, therefore reducing spends and providing spends evidence and accountability.

- Master centrally Organizational Structures and Hierarchies, Personnel and Officers data and relationships, creating a solid foundation for the integration and rationalization of all Personnel related databases/applications, the central implementation of organizational structures and personnel data governance processes, and any Human Capital Management initiative supporting Effective Resources Usage.

- Centralize Real Estate Management, by realizing a central repository of trusted agency properties data, including building information, addresses, GIS coordinates, contacts, documents and maps, for supporting sites administration, properties and related assets management and facilities management.

- Consolidate in a single repository all the information around criminals/terrorists, the associated logistic locations and bases, and all needed risk related information in order to perform Target Analysis and Planning.

- Centralize all parties and sites information, including identities and site access rights, to enable Courts and Prisons Lifecycle Management.

- Provide a solid master data and services foundation to support Critical Infrastructure Protection processes.
Justice and Public Safety within Public Sector include the Ministry of Interiors, as well as the Municipal Police, National/Federal Police, National Intelligence, Emergency Services, Civil Protection, Courts, Prisons and related Public Sector agencies. Justice and public safety organizations and agencies have a strong need to securely integrate data in real time from different sources to enhance crimes and terrorist pre-incident activities across agency jurisdictions, must share in the maximum possible secure way investigative information and intelligence, optimize resources and logistics for granting missions success while keeping costs low, and have to effectively recruit, develop, and deploy personnel to increase efficiency and timeliness.

Oracle Master Data Governance Benefits For JPS

While master data governance won’t reduce costs on its own, it enables I.T. and business initiatives to be more aligned, allowing eventually better business agility, and costs and risks reductions. Considering generic technology related needs, it is evident that master data governance is key to any SOA, legacy modernization, data integration and BI initiatives. In those scenarios master data governance will provide a solid foundation which will help defense organization to:

- Move from legacy systems to off-the-shelf solutions
- Simplify I.T. infrastructure
- Consolidate and securely integrate data in real time
- Provide end-to-end business process support
- Deploy a flexible applications architecture
- Improve data quality at every touch point

Oracle Master Data Governance Suite delivers a single, well defined, accurate, relevant, complete, and consistent view of master data across channels, departments, and geographies. The results for organizations that implement Oracle Master Data Governance solutions are dramatic:

- Enhanced Threats Detection and Prevention
- Improved National Security
- More effective Personnel and Resources Management
- Increased Agility and Efficiency, Reduced Costs
- Better and more Secure Information sharing and Collaboration between Agencies, Departments, Jurisdictions and Organizations
- Better Governance and Compliance
Oracle Master Data Governance Solutions for Justice and Public Safety Organizations

• Improved Decision-Making

Many of our competitors take more of a toolkit approach that requires the implementing organization or its system integrator to start building a data model from scratch (or almost from scratch) and heavily customize and build out capabilities for each implementation, especially for what concerns security and end users GUI. Let’s discuss a specific example of this difference in approach. Oracle Master Data Governance Suite is built on top of both Oracle and of all of the applications companies acquired by Oracle experience in successfully deploying applications to over 37,000 customers globally. That means that the implementing organization will be taking advantage of an extremely rich master data model, proved in many public sector implementations. With a toolkit approach, you will have to define your master data attribution and build it into their data model. Oracle Master Data Governance has been deployed at customers that had tried a custom build or tool kit approach and had been stuck for a year or more at the ‘agree on definition of master entities’ stage of a project. With Oracle Master Data Governance, you have a rich starting point that can be easily extended if needed.

Conclusion

It has been said that data outlasts applications. This means that an organization’s business data survives the changing application landscape. Technology advancements drive periodic application re-engineering, but the suppliers’ products/services, suppliers, assets and employees remain. Oracle’s Master Data Governance solution is a set of applications designed to consolidate, cleanse, enrich, and synchronize these key business data objects across the organization and across time. It includes pre-defined extensible data models and access methods with powerful applications to centrally manage the quality and lifecycle of master business data.

Clean consolidated accurate master data seamlessly propagated throughout the organization can save organizations millions of dollars a year; dramatically increase supply chain efficiencies; and support sound corporate governance. In this Master Data Governance space, Oracle is the market leader. Oracle has the largest installed base with the most live references. Oracle has the implementation know how to develop and utilize best data management practices with proven industry knowledge. Oracle’s heritage in CRM, SCM, and ERP development insures a leadership position for integrating master data with operational applications. In addition, Oracle Master Data Governance leverages the best in class SOA infrastructure with the award winning Fusion Middleware suite and the best BI infrastructure with the BI EE suite. These strengths have lead to a large Ecosystem with a large number of partners. These are the reasons why Oracle Master Data Governance provides more business value than any other solution available on the market.

Utilizing Oracle Master Data Governance Applications, companies and public sector organizations around the world are operationalizing their data warehouses; consolidating systems; modernizing applications; re-engineering business processes; improving their reporting; increasing intelligence effectiveness; managing threads/risk more efficiently; and creating solid data foundations for ERP, SCM, NCO, Business Intelligence and Data Warehouse implementations.
Over 2000 companies and organizations are managing billions of master data records with Oracle Master Data Governance solutions that are also key components of wider Oracle Justice and Public Safety industry solutions2 such as:

- Intelligence Hub & Alerts
- Integrated Policing Platform
- Integrated Judiciary Management
- Intelligent Borders Platform
- Secure and Safe Events
- Integrated Prisons Platform
