

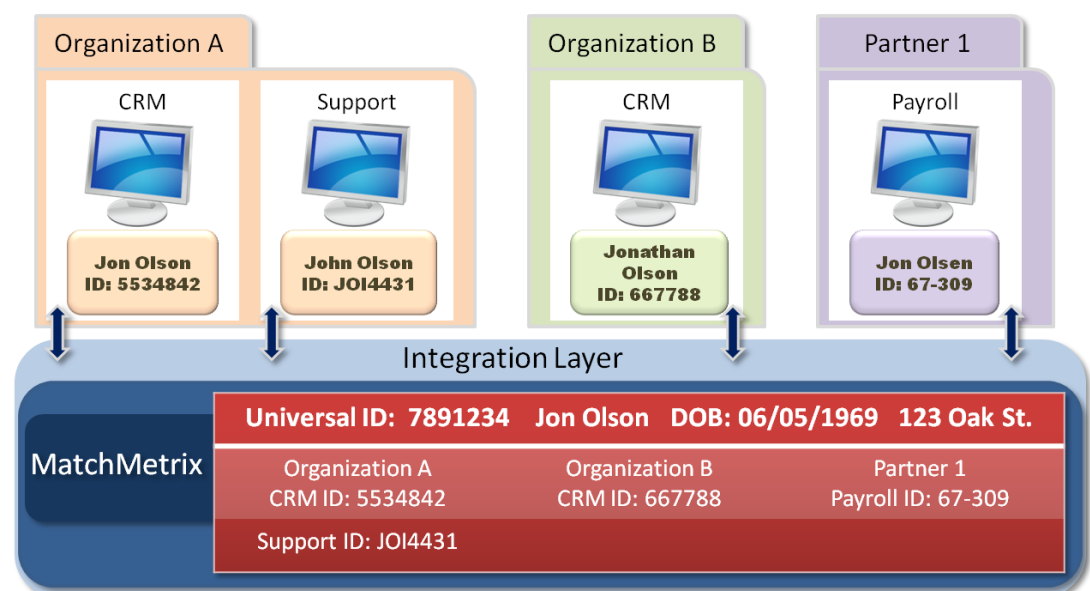
MatchMatrix MDM Platform

Data integration requirements in all domains keep expanding. Whether it is health-care, banking, retail, government, hospitality, telecommunications, or other, market forces are driving the need for a consolidated single view of people and organizations. In these multi-participant environments, it is critical to identify and correlate data and records regardless of location or local identifiers.

NextGate MatchMatrix is an enterprise class Master Data Management (MDM) platform that builds industry specific indexes that enable organizations to capitalize on the rich content of their data. MatchMatrix uses intelligent matching algorithms to identify, index, and resolve related data records spread over different applications and disparate systems. Without requiring common identifiers or any other exactly matching fields, it builds a comprehensive master index of entities, and links them together under an Enterprise ID, which in turn drives improvements in productivity, knowledge, and costs.

With nearly two decades of experience deploying enterprise index solutions, NextGate designed the MatchMatrix MDM Platform to be a robust foundation for generating master index applications for any industry. The MatchMatrix MDM Platform is the most scalable, reliable, and adaptable solution for next generation information management.

Organize and Trust Your Master Data



Master Index

A centralized, comprehensive and trusted directory to manage and share information about entities across applications and organizations

Benefits

- Increase accuracy in the exchange of information
- Streamline interactions with customers and partners and associated processes
- Improve communication among members and stakeholders
- Improve regulatory compliance
- Non-invasive to current systems and processes
- Rapid implementation
- Low Total Cost of Ownership

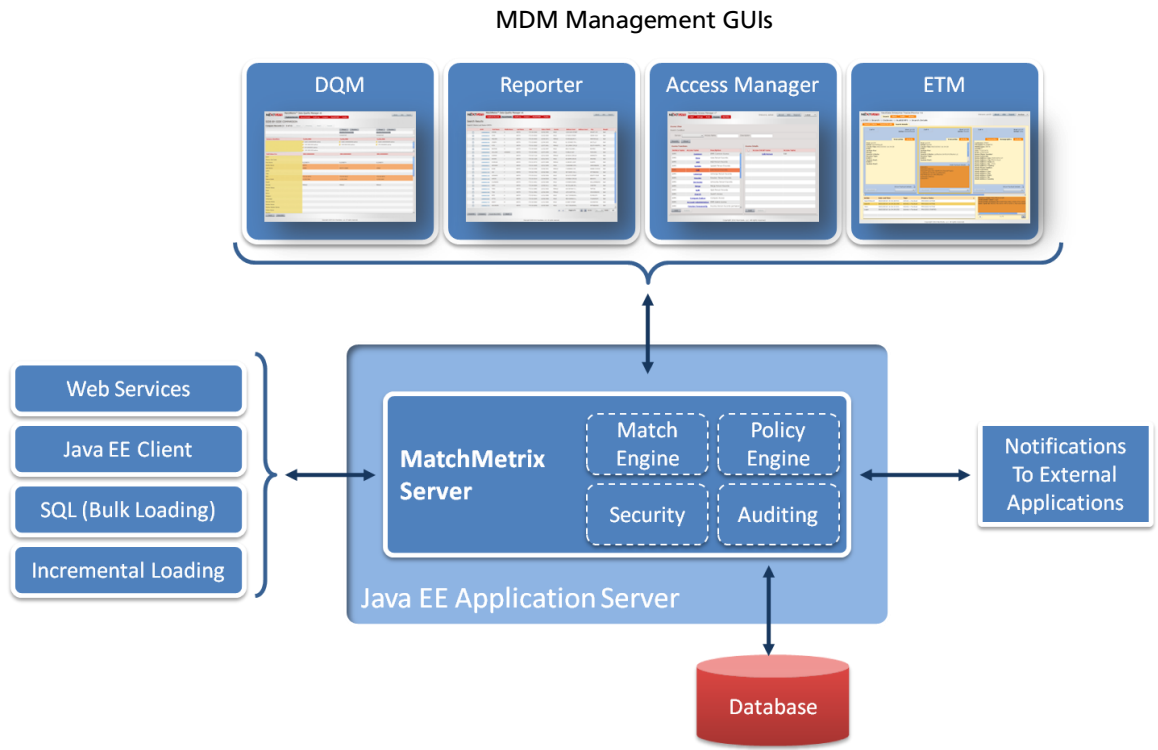


Features

- Optimized matching algorithm to compare and standardize heterogeneous records
- Data model support for any domain
- Field level role-based security
- Standard reports display activity and operational statistics
- Audit trails record every access activity
- Screen flows designed for efficiency
- Plug-ins for site specific requirements

Technical Overview

The MatchMetric MDM Platform provides the core building blocks required for constructing any master index application. A finely tuned probabilistic algorithm utilizes a variety of data elements to match information from heterogeneous systems and aggregates the content under a new enterprise identifier assigned to each entity. A complete set of APIs provide easy access to the index for data loading, real-time updates, querying, searching, and developing plug-ins to address an organization's specific needs. The Platform includes detailed authorization, auditing, and monitoring capabilities to ensure proper access and to record all activity.



MatchMetric MDM High Level Architecture

MatchMetric Server

The MatchMetric Server is the central component of the index, which consists of the database indexing logic and the sophisticated algorithms that evaluate, correlate and resolve disparate data. The Server can be deployed in centralized and federated architectures, and delivers comprehensive functionality at an accelerated speed.

The data model for the index is flexible in its support for any domain including attributes necessary to support a multi-facility, multi-partner deployment. Probabilistic matching algorithms are tuned for aliases, transposed characters, and ethnic naming conventions. Based on user-configured match thresholds, all indexed entries are assigned a weight which is used to determine potential duplicates, automatic merges, and unique records.



MatchMetrix Data Quality Manager

The Data Quality Manager (DQM) provides the front-end web-based management interface for searching, viewing, editing, merging, and tracking records. It is the end-user gateway to the underlying MatchMetrix index.

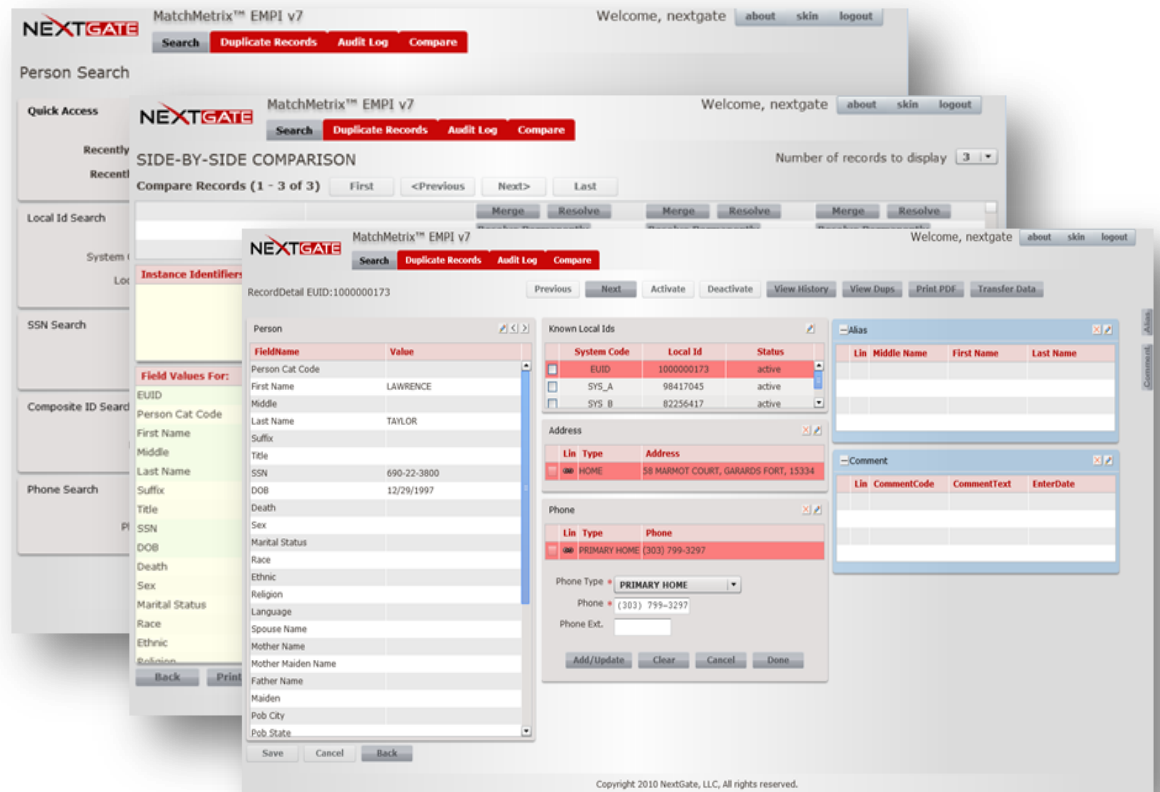
The search engine accepts a variety of query types and accommodates common user errors like misspellings and transposed characters. Up to 5 records can be compared side-by-side, with highlights indicating field differences. Each system that participates in the index can choose to have individual fields masked for privacy. The DQM layout and functionality greatly enhance productivity and efficiency.

Stewardship Functions

- Search
- Review potential duplicates
- Compare records
- Edit records
- Merge records
- Un-merge records

Search Types

- Demographic with varying levels of attributes
- Local Identifier
- Unique Identifier (e.g. SSN or Driver's License Number)
- Statewide Identifier



Sample Data Quality Manager Screens

MatchMetrix Access Manager

The Access Manager supports the strict concerns of security, privacy and data ownership by controlling user and system access to the index. Utilizing Role-Based Access Control, LDAP credential stores, consumer opt-in and opt-out settings, and PKI-based security, only authenticated users are capable of interacting with the contents, functions, and GUIs of the index. With granular precision, all data fields are restricted according to the roles of authorized users, protecting sensitive data from disclosure. Comprehensive audit capabilities track every time a record is viewed or changed, including before and after images, and the user ID. This feature is particularly helpful in the context of an integrated delivery network, giving participating enterprises confidence that their data is not generally available to any index user.



MatchMetrix Reporter

The Reporter generates practical reports to help maintain a clear operational understanding of the index, from both a data quality and a user activity perspective. The Reporter GUI allows end users to generate standard reports or build ad-hoc reports against any data element in the index. Reports can be displayed on a browser or saved in PDF, XLS or CSV formats for distribution. Most importantly, the reports can focus on a single facility or user, or span the entire index.

Standard Reports

- Potential Duplicate by Facility
- Automatic Match by Facility
- SSN Duplication or Change
- Potential Overlay
- Transaction Activity

EMPI	Last Name	First Name	Middle	DOB	Sex	SSN	Home Address	Weight
1000001273	TAYLOR	LAWRENCE		12/29/1997		690-22-3800	58 WABROT COURT, GARARDS FORT, PA, 15334	2.8
1000001881	MCCORMALE	LEAH		03/23/1954		455-24-1849	35 SUNVIEW DRIVE, NEW CASTLE, PA, 16105	2.8
1000001883	NICKERSON	LELLIAN		07/11/1932		288-75-1742	355 GENEVIEVE STREET, LANCASTER, PA, 17606	2.8
1000000491	WU	LEINA		12/23/1917		365-10-7980	8 MADISON STREET, LEVITTOWN, PA, 19037	2.8
1000000257	BATES	LAURA		05/04/1985		793-14-5727	33 RUSSETT ALLEN PLACE, LEWISBURG, PA, 17837	2.8
1000000316	CUMBRING	LINDSEY		12/19/1919		476-42-5073	1 PEPPERREE CIRCLE, MADISON, PA, 15663	2.8
1000000388	HOGAN	LELLIAN		04/25/1947		625-28-6327	1110 BETULA DRIVE, PENNSYLVANIA FURNACE, PA, 15865	2.8
1000000429	TURNER	LOIS		02/19/1963		393-43-2523	5 MEYER RIDGE DRIVE, MONACA, PA, 15061	2.8
1000000430	YOUNG	LAURA		12/08/1970		497-53-7483	304 CONCRETE STREET, PALMADOLPHIA, PA, 19150	2.8
1000000446	QUINN	LAURA		10/23/1954		455-24-3207	10 WOLF CREEK CIRCLE, KNOWLESVILLE, PA, 19379	2.8
1000000490	RODRIGUEZ	LOUIS		06/25/1993		408-32-3063	39 CASSIN DRIVE, NOTTINGHAM, PA, 19362	2.8
1000000491	BLANK	LLOYD		10/19/1914		333-27-5782	104 KANTORNA DRIVE, ALVERDA, PA, 15710	2.8
1000001288	SEARS	LEONARD		07/08/1979		284-12-1560	4 BARON DRIVE, CAMP HILL, PA, 17001	2.8
1000001274	ROSA	LELA		11/29/1971		116-43-2007	82 BLUE PRICE LANE, BRAVE, PA, 15316	2.8
1000001297	SANDEL	LOPEZ		01/10/2003		600-00-0001	604 SPIRIT HILL, PITTSBURGH, PA, 15224	2.8
1000001340	MURILLO	LINDSEY		08/26/1989		302-31-9556	72 ACHESON LANE, HOP BOTTOM, PA, 18824	2.8
1000001410	TUCKER	LEON		08/27/1993		278-29-7208	284 NORTH WAREGELL STREET, PITTSBURGH, PA, 15219	2.8
1000001421	MARTINEZ	LUCY		01/09/2010		438-06-1269	410 KALKA CIRCLE, INDEAVOR, PA, 16322	2.8

EMPI	Last Name	First Name	Home Address	SSN	DOB	Sex	Status	Weight
1000002354	BROWN	PEARL	3109 SOUTHMINOR LOOP, ROCKROSVILLE, PA, 15359	123-71-7166	04/02/1978	F	U	37.99
1000002355	BROWN	PEARL	3109 S MINOR LOOP, ROCKROSVILLE, PA, 15359	123-71-7166	04/02/1978	F	U	37.99
1000002333	BROWN	PEARL	3109 S MINOR LOOP, ROCKROSVILLE, PA, 15359	123-71-7166	04/02/1978	F	U	37.99
1000002334	BROWN	PEARL	3109 SOUTHMINOR LOOP, ROCKROSVILLE, PA, 15359	123-71-7166	04/02/1978	F	U	37.99
1000000657	MOORE	JANE	676 CRES DR, ROCKTON, PA, 15854	352-13-4237	04/18/1981	F	U	37.87
1000000657	MOORE	JANE	676 CRES DR, ROCKTON, PA, 15854	352-13-4237	04/18/1981	F	U	37.87
1000000650	MOORE	JANE	676 CRESCENT DRIVE, ROCKTON, PA, 15856	352-13-4237	04/18/1982	F	U	37.87
1000117438	ROGERS	GLORIA	2165 CLARE CIRCLE, FARMINGTON, PA, 15437	653-24-4909	09/23/1997	F	U	37.87
1000117438	ROGERS	GLORIA	2165 CLARE CIR, FARMINGTON, PA, 15437	653-24-4909	09/23/1997	F	U	37.87
1000117438	ROGERS	GLORIA	2165 CLARE CIR, FARMINGTON, PA, 15437	653-24-4909	09/23/1997	F	U	37.87
1000117438	ROGERS	GLORIA	2165 CLARE CIR, FARMINGTON, PA, 15437	653-24-4909	09/23/1997	F	U	37.87
1000117438	ROGERS	GLORIA	2165 CLARE CIRCLE, FARMINGTON, PA, 15437	653-24-4909	09/23/1997	F	U	37.87
1000002786	WAGNER	LAWRENCE	71 GILBERT ROAD, GILBERT, PA, 16311	653-51-1438	06/07/1981	M	U	37.96
1000002781	WAGNER	ALBERT	71 GILBERT ROAD, GILBERT, PA, 16311	653-51-1440	06/07/1981	M	U	37.96
1000002781	WAGNER	ALBERT	71 GILBERT ROAD, GILBERT, PA, 16311	653-51-1440	06/07/1981	M	U	37.96
1000002780	WAGNER	LAWRENCE	71 GILBERT ROAD, GILBERT, PA, 16311	653-51-1438	06/07/1981	M	U	37.96
1000181156	EVANS	JACK	11 ASPENHIRE COURT, DAGUE MINES, PA, 15811	118-39-6024	07/28/1952	M	U	37.95
1000181156	EVANS	JACK	11 ASPENHIRE CT, DAGUE MINES, PA, 15811	118-39-6024	07/28/1952	M	U	37.95
1000181156	EVANS	JACK	11 ASPENHIRE COURT, DAGUE MINES, PA, 15811	118-39-6024	07/28/1952	M	U	37.95

Sample Reporter Screens

Specifications

- Operating Systems:
 - Windows
 - Linux
 - Solaris
 - AIX
- Application Servers:
 - JBoss
 - GlassFish
 - WebLogic
 - WebSphere
- Databases:
 - Oracle
 - SQL Server
 - MySQL
- Standards:
 - Web services
 - XML
 - HL7
 - PIX/PDQ
 - IHE compliant

Enterprise Tracker and Monitor

The Enterprise Tracker and Monitor (ETM) provides centralized monitoring and auditing for distributed applications built with the MatchMetrix MDM Platform, making it easier to get a clear, comprehensive picture of the state of the entire system. ETM monitors messages, errors, and alerts, storing them to enable report generation, audits, and message resubmission to aid in troubleshooting, all in a simple and intuitive web based GUI.

NextGate Implementation Resources

NextGate has unmatched experience in designing, implementing, testing, and rolling out index solutions. Our experience starts in the early 1990's with the development of health-care's first vendor independent EMPI. Since then, our team of experts has been working together, acquiring a distinguished track record and deep knowledge of the subtleties, benefits, and consequences inherent in the implementation of an index in many domains. This elite team is comprised of solution and product architects, engineers, QA analysts, and project managers, each with an extensive knowledge of the entire index implementation process.

About NextGate

NextGate, the Enterprise Master Index leader, offers products and services for the precise management and access of information. With an extensive background in Enterprise Master Person Index, Enterprise Application Integration, and Service Oriented Architecture technology, NextGate is a leader in delivering creative, robust and simple solutions that make data management easier.

