

EMPI/MRC FEATURES

Captures patient demographics information once, regardless of the point of entry, thus ensuring that patients are not asked the same questions over and over again when they visit different health care facilities in a community of care or when they make multiple visits to a particular facility

Automatic updates of all demographic data elements between different systems, using HL7 or SQL, thus saving time, eliminating errors, and improving data quality and cash flow

Built on Microsoft SQL RDBMS to populate all historical demographic data in the EMPI

Synchronizes the HCIS database in a real-time mode

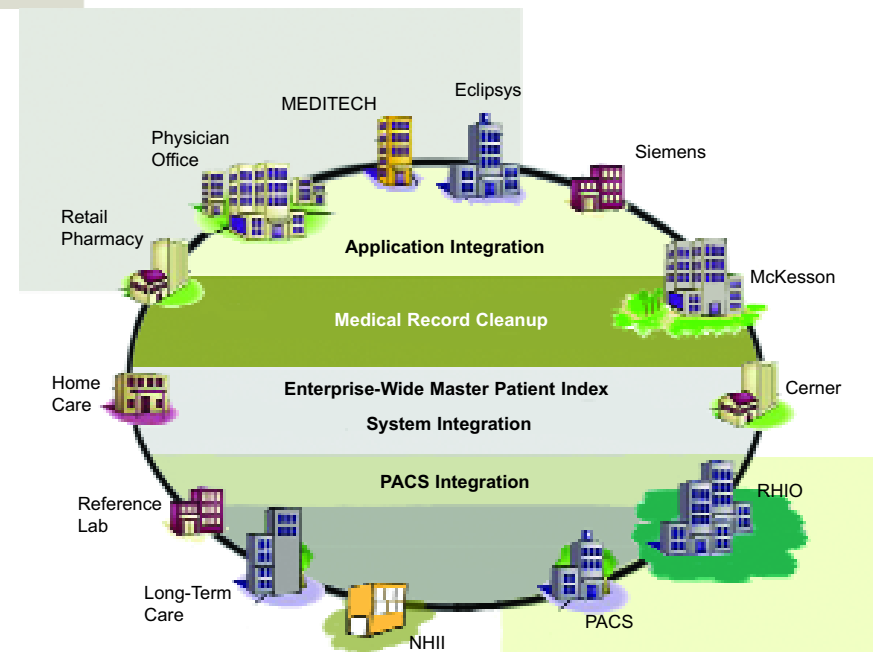
Ability to log all transactions with user identification to track data entry and other errors

Supports MPI for patient confidentiality issues using any field as a parameter (e.g. limit by physicians, groups, locations, etc.)

Ability to Merge duplicate MPI

Automatically passes information to create MPI record on HCIS, based on pre-defined parameters

Automatically passes updated information to create/update demographic information based on pre-defined parameters



More and more healthcare facilities are optimizing their resources by joining together to create healthcare enterprises and delivery networks... They need to link all clinical, financial and demographic data from various IT systems... They need to have the various applications and systems across an integrated delivery network in sync... **TSG connects your systems for integrated healthcare across the community.**

Integration Across the Community

ASTRO EMPI

Enterprise-Wide Master Person Index

Connecting Systems ... Connecting Care ... Enhancing Lives



 **MRC** Medical Record Cleanup

The major goal of an EMPI (Enterprise-wide Master Person Index) is to provide a seamless methodology where all providers in an integrated delivery environment are connected together to capture and feed critical data sets of information for improved customer service, better patient care, and lower cost across the enterprise. TSG's EMPI/MRC systems come with a built-in Integration Engine and support most industry standard communication protocols and messaging standards like HL7, XML, SQL, etc.



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Enterprise Master Person Index & Medical Record Cleanup

It is widely known that in the quest to achieve an optimal level of performance, many hospitals struggle with issues of timeliness, integrity and quality of data within their own organization and also as they attempt to link and exchange data across their community. The creation and preservation of consistent patient data is, undoubtedly, a task that cannot be compromised in any way. It has huge patient safety and care process implications.

As all hospitals work toward creating a totally digital environment, they must ask two major questions:

1. Is the foundation of my Electronic Health Record 99% non-duplicate and it is built on a unique medication record identifier?
2. As I plan to integrate with other providers with their own unique medical record numbers, how do I create an enterprise-wide master person index for longitudinal care process and evidence based clinical decision support?

TSG offers two solutions that can work independently of each other or work hand in hand depending on the needs of your organization. Our EMPI, an Enterprise Master Person (Patient) Index system and a Medical Record Cleanup (MRC) Solution not only match and exceed the requirements set out for an effectively designed EMPI and MRC, but also combine functionality and productivity with a dose of simplicity and ease-of-use for the end users. It integrates multiple MPI's, cleanses each organization's MPI's, stores, mines, and automatically manages and combines duplicate MPI's based on advance algorithm to ensure a risk free foundation for an electronic health record.

TSG has designed both systems to work in an appreciatively straightforward, yet robust manner. The MRC process allows facilities to streamline and merge multiple patient record numbers to one, ensuring the most accurate and current information is collectively available from that point forward. EMPI centralizes the process

for patient record index data from one or multiple facilities, which are then entered into the single, centralized EMPI database. This central location, developed and managed by EMPI, is responsible for the preservation of the complete master record index from which all sources will now draw their information. As patients enter the EMPI system, they are accurately identified and assigned a unique and universal EMPI number.

This number is completely separate from each facility's medical record number the patient may have come in with, and is used by the EMPI database to properly distinguish, maintain, and merge patient data. This database is continuously updated as all medical record index data are examined and measured for possible merges as they are entered into the system. This again ensures that accurate, consistent, and reliable information will be available for each patient across the continuum of care. Potential errors are minimized via the use of improved patient search tools, sophisticated comparison algorithms, and effective user interfaces.

The true power of EMPI/MRC systems can be found in the way they mine, present, and then merge the patient record numbers. Most HCIS and even other EMPI systems are found to have limitations in their ability to view data fields and in the time required to conduct effective merges. TSG's systems eliminate both of these obstacles as they utilize a uniquely superior, browser-based method of presentation and merging functionality. As opposed to only being able to see a very slim set of data fields for potential merge considerations, TSG offers the viewing and probing of up to 120 fields for its merges. This tremendously speeds up the process, and provides the user with exceptional control over how the merging of data is to be conducted.

The value of the EMPI and MRC systems is further boosted by their ability to easily integrate into any organization and community environment. By implementing this system, healthcare facilities do not need to change their existing policies or procedures in any way, allowing them to enjoy the benefits of the EMPI and MRC systems without the worry of adapting to a new application.

BENEFITS

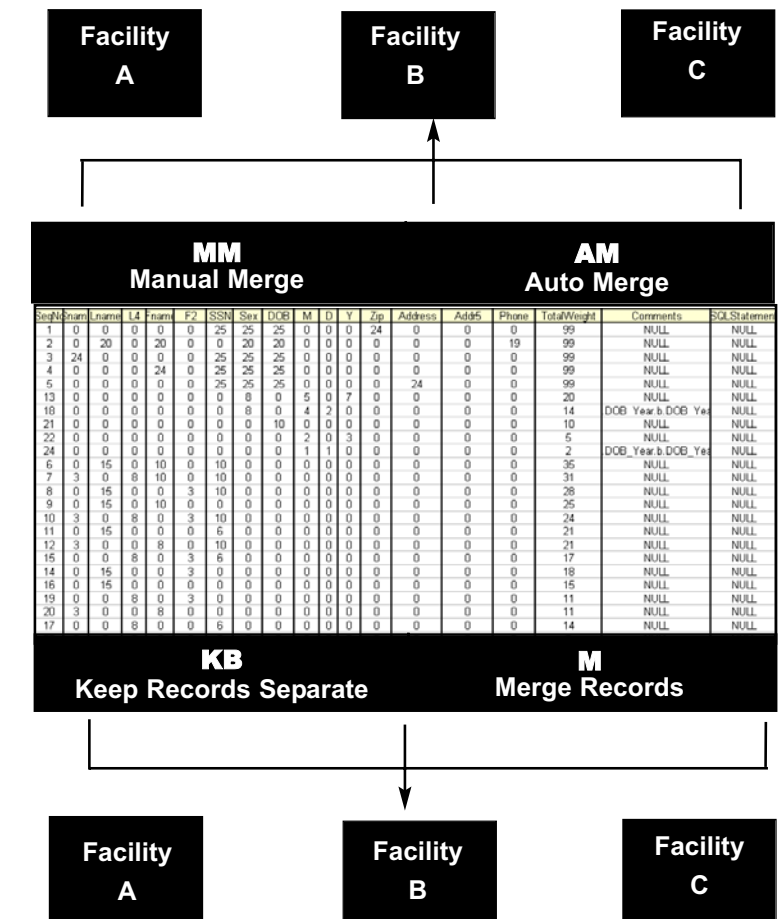
- Highly advance and algorithm based cleansing of MPI data in an automated manner
- Centralized location of all patient demographic and medical record index data, ensuring current and accurate information is available when accessed across the continuum of care
- Integration options available ensuring a match to a facility's interface system -- no need to change existing system, policies or procedures
- Match weight table feature that ensures optimal performance for accurate matches to achieve complete and accurate patient record index data
- Algorithms can be customized according to hospital specific rules for merges
- The ability to view and probe up to 120 fields for exceptional control/QA over the merges
- Audits are manageable and easy to perform
- A robust audit trail that complies with HIPAA standards
- Enhanced benefits of time management, bottom line results, and efficient use of resources

HOW IT WORKS

- The basic functionality of the TSG EMPI/MRC systems is to establish a unique enterprise linkage of medical records data from one or many sources within a delivery systems. Hence the systems provide:
 - Highly accurate algorithms for detecting patient identifiers and for establishing merges between record numbers representing the same individual
 - High performance for providing real time record comparisons and updates
 - Efficient review and resolution of potential errors
 - Effortless integration with existing systems and platforms

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MRC WORKFLOW



The TSG weights table is a set of rules that enables the user to identify patient records that need to be merged.

REPORTING TOOLS

- EMPI/MRC systems produce a list of all merges performed automatically during a user specified date range.
- EMPI/MRC systems produce a list of all merges performed manually during a user specified date range.
- EMPI/MRC systems produce a list of all patient record index data edits and updates since the record was downloaded to the EMPI/MRC systems, or since the record was created.
- These reporting tools are available to all users of the EMPI/MRC systems, including all administrators and interface users.