

Data Repository Functionality Brief



MEDITECH's Data Repository provides your healthcare organization with an open environment for powerful reporting and decision support. Virtually all data in the MEDITECH EHR, as well as other vendors' information can be analyzed and reported on in a consistent format, using off-the-shelf Web- or PC-based reporting software. The repository uses industry-standard tools to make information fully-searchable across all applications.

Highlights:

- Analyze clinical, operational, and financial data across your organization
- Store organization-wide data in an ODBC-compliant relational database
- Enhance reporting with off-the-shelf tools, such as Microsoft Access and Crystal Reports
- Obtain quick access to data from both MEDITECH and non-MEDITECH databases
- Integrate MEDITECH EHR data with information from other vendors' systems
- Combine, and report on discrete data throughout the continuum of care
- Monitor performance and extract and report on quality metrics
- Perform complex studies without impacting the speed of the LIVE environment

The Data Repository Enables Executives, Quality Managers, and I.T. Staff to: Store Data from the MEDITECH EHR in a Separate ODBC-compliant SQL Database

The Data Repository collects information on patients throughout your enterprise, organizes it for study, and makes it accessible through a wide range of reporting tools for flexible and extensive reporting and analysis. Data is shared openly with other vendor software and ODBC-compliant databases through the use of industry standards, such as Microsoft Windows operating systems and Microsoft SQL Server Relational Database Management System.

The Data Repository supports:

- Continuous processing of transfers from MEDITECH to the SQL database
- Vast storage capacity, along with immediate access to comprehensive historical data
- Continuous updating of data in the Data Repository as it is updated in the applications.

In addition, the Data Repository enhances efficiency by allowing users to report on information without impacting the speed of their LIVE environment. Physicians, clinicians, and other staff using the MEDITECH EHR are not adversely impacted by any analyses taking place in the Data Repository.

Map Data from Other Vendor and Industry Databases

Your organization can combine Data Repository data with information from non-MEDITECH sources used across the continuum, in places like physicians' practices, rehabilitation facilities, independent specialty clinics, and insurance companies.

Other vendor and industry data can be incorporated with Data Repository data in several ways, including the following:

- Standard interface protocols can bring this data into your MEDITECH system, which then submits this data to the Data Repository
- Customer-defined screens within MEDITECH can capture and report on data from other organizations, and submit it to the Data Repository
- ODBC-compliant reporting tools can be used to join MEDITECH and other vendor data.

Information can be mapped from organizations, such as the Centers for Disease Control and Prevention (CDC) and Press Ganey, to compare patient data from your organization against third-party benchmarks.

Operate with Powerful Reporting Flexibility

The Data Repository supports third-party SQL, OLAP, and ODBC-compliant reporting software and services such as Microsoft Excel, Microsoft Access, Crystal Reports, ASP.Net, Microsoft Reporting Services, and SQL Server Management Studio. Features include the ability to:

- Ensure a stable environment by enabling streamlined report development and updates
- Capitalize on virtually unlimited opportunities for development via a continually-evolving platform
- Use clustered indexes to define tables based on the primary key constraints on the table, and create additional nonclustered indexes as needed to optimize unique reporting needs
- Simplify report development through standard column naming conventions and foreign key designations.

Together, these reporting options afford customers the capability to manipulate and graphically depict selected data using enhanced visualization tools, such as: traffic lighting, OLAP cubes, balanced scorecards, dashboards, and pivot tables.

Access Health Healthcare for Decision Support and Research Projects

By combining detailed information from across clinical, administrative, and financial applications, the Data Repository provides a powerful research tool for analyzing both financial and quality benchmarks and performing cross-population analysis. For example, your staff can:

- Study data to conduct business and research analyses
- Quickly analyze the broad scope of information and draw conclusions about patient treatment strategies, strategic planning, and outcomes reporting
- Identify cost efficiency levels on an overall organizational basis, and on a provider-by-provider basis
- Custom design queries using third-party software to perform unlimited analysis on patient populations
- Report on quality measures, as outlined by agencies such as The Joint Commission, the Centers for Medicare & Medicaid Services (CMS), and Press Ganey, and use this data to monitor and achieve national and regional benchmarks.

The Data Repository can help your organization monitor and trend key performance indicators (KPIs), core measures, national patient safety goals, and other critical data. For example, COOs, CFOs, and quality managers can use the Data Repository to improve your organization's performance, financial strength, and reputation within the community by targeting problem areas, making operational adjustments, and improving outcomes. Core measure data can also be sent electronically to third-party vendors through File Transfer Protocol (FTP).

Capitalize on Your Data Repository Investment through Medisolv

MEDITECH offers an exclusive relationship with Medisolv, whose products offer pre-built and customizable reports and executive dashboards designed to operate with the Data Repository. Medisolv's reporting packages convert large volumes of financial, clinical and operational data into actionable information, helping managers more efficiently analyze data and key performance indicators to improve organizational performance.

Medisolv products include:

- RAPID, which integrates existing transactional data into functional data marts, enabling users to analyze hospital data across multiple dimensions using hundreds of standard drill-down reports and multidimensional OLAP cubes
- IndiGo, which automates the creation, management, and distribution of standard key performance indicators used to measure a hospital's overall health
- ENCOR, which automates case selection, case abstraction, and data submission and provides an Oryx-approved resource for efficiently compiling, organizing, and submitting data for CMS and The Joint Commission regulations.

Protect the Security of Information

The Data Repository is completely controlled by the security features inherent in the Microsoft Windows ® Operating System and the SQL server. This security is very flexible and can restrict user access to specified tables and/or columns in a table. Row-level security can also be realized using views.

The following types of security are used with the Data Repository:

- Standard security using the SQL server's own login validation process for name and password input
- Integrated security using the Microsoft Windows operating system's authentication process to validate login requests
- Mixed security, which validates login requests using either standard security or integrated security
- Audit Trails, which track activity by user, time, device, patient, application, and routine.

For more information about us, contact a MEDITECH Marketing Consultant.

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