INTRODUCTION TO MEDITECH DATA REPOSITORY
Your phone has been automatically muted. Please use the Q&A panel to ask questions during the presentation!
AGENDA

- Data Repository Intro
- Why Use the Data Repository
- Database Management
- Development Best Practices
- Data Structures and Finding Data
- Tools and Reporting Platforms
- Discussion, Q&A
Data Repository Intro

- Data Repository is a relational database of sort that has a data structure that is very close to the actual MEDITECH database itself with a few name changes here and there.
- Typical installs are SQL server 2008 SR2 and above.
- Information about the data within the tables are stored in the MEDITECH system (no real metadata).
- There are several thousand tables that correspond to MEDITECH modules. For example data in the ADM Module will be stored in ADM tables.
- Access to the SQL server is typically managed by Active Directory.
- Data Repository is just about real time. You might see a few seconds of a delay here and there. This allows for real time data reporting such as clinical information.
Solving for Today. Preparing for Tomorrow.

Data Repository Data Flow Schematic

Meditech

livendb

DR Manager

livefdb
Why Use the Data Repository

- With a SQL database you have many options for creating beautiful detailed reports. Just about any report written in Meditech’s NPR Report Writer or Report Designer can be created using SQL reporting tools (with a few exceptions).

- Multi-Module reporting is much easier (no more fragments or tedious rule development).

- Developing reports is much faster with the ability to see the data real time as you code. You don’t have to file and translate then run anymore.

- SQL is much faster at getting the data you need. Those BAR reports that took so long to run now can be produced in minutes.

- The Data Repository is a separate server from Meditech which means reports (not real time) can be run even if Meditech is down.

- SQL opens up many opportunities for custom development such as dashboards, portals, graphical presentation, etc.

- SQL also can be used as a historical database.
<table>
<thead>
<tr>
<th>Measure</th>
<th>DEN</th>
<th>NUM</th>
<th>Stage 2 Status</th>
<th>Stage 1 Status</th>
<th>PERCENT</th>
<th>PERCENT (%)</th>
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<tbody>
<tr>
<td>Active Medication List</td>
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<td>1568</td>
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<td>Advance Directive</td>
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<td>Meeting 50% Threshold</td>
<td>Meeting 50% Threshold</td>
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<td>100.0000</td>
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<td>CPOE Medications Unique Patients</td>
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<td>1210</td>
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</table>
Database Management

- SQL Server Management
  - Disk space monitoring
  - Regular Backups
  - SQL Maintenance Wizard
  - Index fragmentation (RegAcct_Query)

- Meditech DR Module has several tools to help maintain and manage your data repository.
  - Data Transfer
  - Errors
  - Exceptions
  - Logs
  - Table and column information
  - Initial Load
### DR Monitor Status

- **Job**: 2818744
- **Status**: Running

### File Maintenance

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<tr>
<th>Status</th>
<th>Completed - 09/02/15 1:00 am</th>
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<tbody>
<tr>
<td>Job Number</td>
<td></td>
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<tr>
<td>Switch</td>
<td>On</td>
</tr>
<tr>
<td>Last Start</td>
<td>09/02/15 1:00 am</td>
</tr>
<tr>
<td>Last Finish</td>
<td>09/02/15 1:00 am</td>
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<tr>
<td>DrManager Last Sent</td>
<td>09/02/15 1:00 am</td>
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### File Maintenance By Component

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<tr>
<th>Component</th>
<th>Last Start</th>
<th>Last Finish</th>
<th>Status</th>
<th>Switch</th>
<th>Purge Days</th>
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<td>03/02/15 1:00 am</td>
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<td>14</td>
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<td>14</td>
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<td>03/02/15 1:00 am</td>
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<td>On</td>
<td>30</td>
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Database Management Tips

- Don’t Restart the server without stopping the Meditech Background jobs (turn off auto windows update). Data transfer can be interrupted and data can be lost. IL loads on tables will have to be done to fix this problem.

- Setup custom alerts on high volume tables. This will alert you if a table such as RegAcct_Main is not being updated.

- When in doubt call Meditech.
Development Best Practices

- Don’t add, delete, or modify any Meditech created tables, functions, and stored procedures (anything in livendb or livefdb).
- Create your own custom database to do any custom devotement in.
- Write efficient code by joining on the keys set on the table such as SourceID and VisitID.
- Create stored procedures that can gather data needed for multiple reports.
- Document as much as possible in your code so that others can see what was done and how the data was pulled.
Custom Database
Data Structures and Finding Data

- Meditech can be structured under one database for Client Server/Magic or 2 databases for Meditech 6.x. NPR = livendb and MAT = livefdb.

- In a Client Server/Magic system all data lives in livendb

- In a 6.x system generally clinical data will live in livefdb (pcs, om, pcm, reg, edm, etc.) and ancillary data will live in livendb (pha, lab, its, mm, bar, etc.).

- Simple queries can be used to find data within tables.

- Meditech itself is a great resource in finding the data you need.
Implementing and Supporting Your System

Pre-Implementation
Core Team Allocation
Customer Responsibilities
Hardware/Software Requirements
Implementation Process
Introduction
Introductory Call

Building/Training
Application Overview WebEx I
Test Plan

Go-LIVE Preparation
Pre-LIVE Checklist

Best Practices
ARRA Meaningful Use - Eligible Hospitals
ARRA Meaningful Use - Eligible Professionals
ARRA Meaningful Use - Oncology

Training Materials
Data Schema
Data Transfer Process
Integration
Manuals
SQL Server Hardware Migrations
Presentations
Table Structures
Tutorials

Support and Development
Enhancement Resources
Knowledge Base
Report Archive
Updates/Release Documentation Search

Related Product Pages
Report Writer

Seminars
Classroom and Online Evaluations
Tools and Reporting Platforms

- Popular tools for writing SQL queries are SQL Server Management Studio and Visual Studio.
- Microsoft reporting Services or Sharepoint are both commonly used platforms/delivery methods for reports. Both give the end user a nice web interface that integrate well with Microsoft Office applications.
- Other reporting tools that can be used are Crystal Reports, KRONOS Analytics, and Iatrics
Galen MEDITECH Service Offerings

- Reporting
  - DR Database Training
  - Ad-hoc Custom Reporting
  - Quality Initiative Reporting

- Data Conversions
- Interface Development
- Optimization
- Project Planning and Governance
- Go-Live Support & Staff Augmentation
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