

MUCH MORE  
THAN I.T.

# POSSIBILITY

INTRODUCTION TO MEDITECH DATA  
REPOSITORY



**Your phone has been automatically muted. Please use the Q&A panel to ask questions during the presentation!**

The screenshot shows the Cisco WebEx Event Center interface. The main content area displays a slide with the Galen Healthcare Solutions logo and the text "MUCH MORE THAN IT SEEMS POSSIBILITY Welcome to Today's Webcast The webcast will begin shortly...". The slide features a background image of a white SUV driving on a dirt road in a desert landscape. The interface includes a top menu bar with "File", "Edit", "View", "Communicate", "Participant", "Event", and "Help". Below the menu bar, there is an "Event Info" tab and a "Public\_Webc..." tab. A red circle highlights the "Full Screen" icon (a square with an arrow) in the top right corner of the video player area, with the text "Click for Full Screen Mode" and an arrow pointing to it. Another red circle highlights the "Q&A" icon (a blue square with a white question mark) in the top right corner of the interface, with the text "Click to open Q&A Panel" and an arrow pointing to it. A red arrow points from the Q&A icon to a Q&A panel at the bottom right of the screen. The Q&A panel has a dropdown menu set to "All Panelists" and a "Send" button. Below the dropdown, there is a text input field with the placeholder text "Select a panelist in the Ask menu first and then type your question here. There is a 256-character limit." The bottom right corner of the interface shows "Connected" with a green dot.

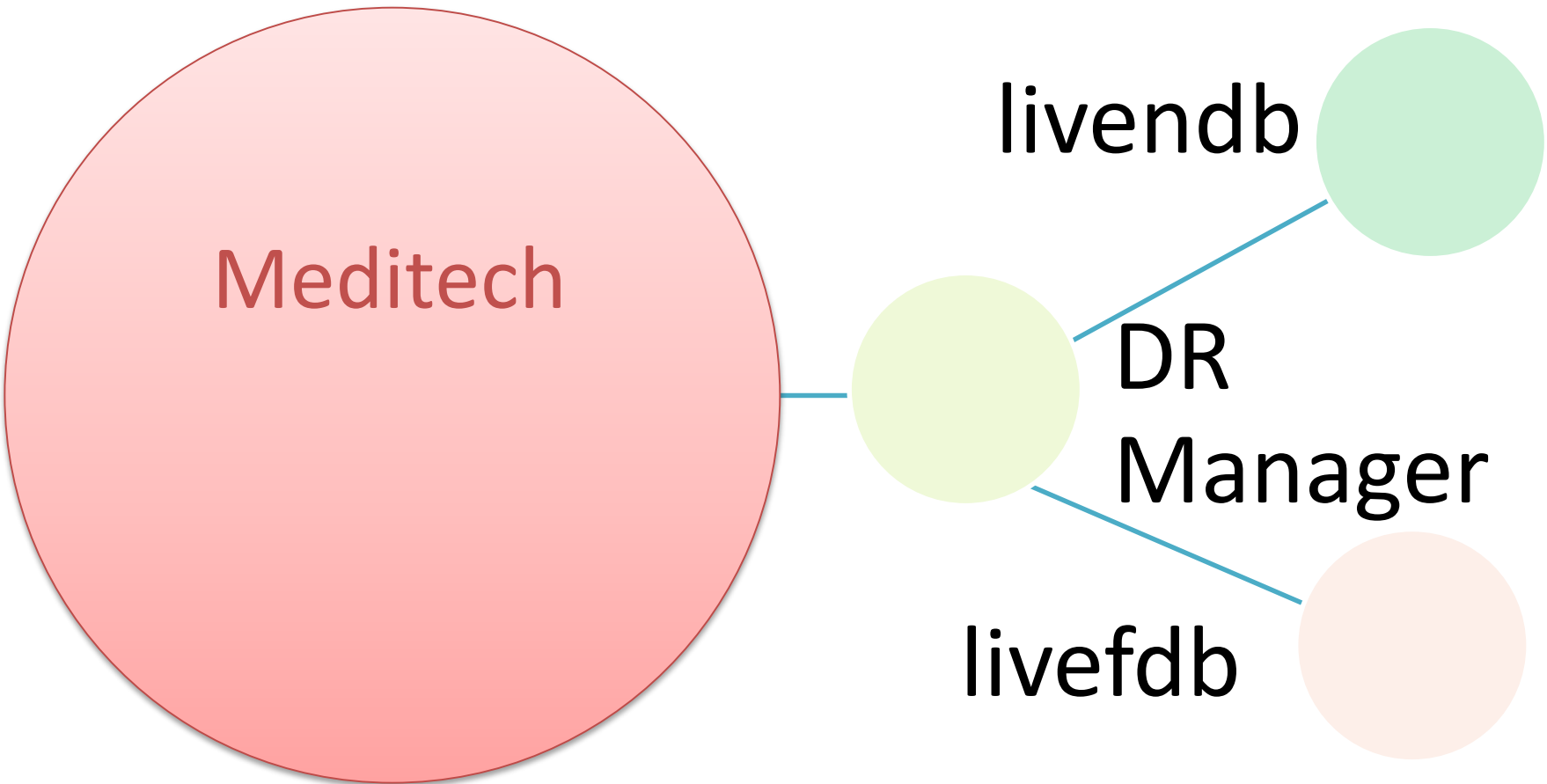
# AGENDA

- 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.

## Data Repository Data Flow Schematic



## 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.

Select a Range

Measure	DEN	NUM	Stage 2 Status	Stage 1 Status	PERCENT	
Active Medication List	1650	1568	Measure Not Applicable for 2014 Stage 2	Meeting 80% Threshold	95%	95.0300
Advance Directive	791	791	Meeting 50% Threshold	Meeting 50% Threshold	100%	100.0000
Allergy List	59	52	Measure Not Applicable for 2014 Stage 2	Meeting 80% Threshold	88%	88.1400
CPOE Medications Unique Patients	1282	1210	Measure Not Applicable for 2014 Stage 2	Meeting 30% Threshold	94%	94.3800
CPOE Medications Orders	8641	5554	Meeting 60% Threshold	Meeting 30% Threshold	64%	64.2700
CPOE Laboratory	10593	8388	Meeting 30% Threshold	Measure Not Applicable for 2014 Stage 1	79%	79.1800
CPOE Radiology	1770	1437	Meeting 30% Threshold	Measure Not Applicable for 2014 Stage 1	81%	81.1900
Demographics	12053	12005	Meeting 80% Threshold	Meeting 50% Threshold	100%	99.6000

## 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



## View DR Monitor Status



DR Monitor	
Job	2818744
Status	Running

File Maintenance	
Status	Completed - 09/02/15 1:00 am
Job Number	
Switch	On
Last Start	09/02/15 1:00 am
Last Finish	09/02/15 1:00 am
DrManager Last Sent	09/02/15 1:00 am

File Maintenance By Component						
Component	Last Start	Last Finish	Status	Switch	Purge Days	
Activity	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 56 of 864]	On	14	
Audits	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 24 of 366]	On	14	
Errors	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 1 of 16]	On	14	
Exceptions	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 1 of 15]	On	14	
SpecialIIs	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 0 of 2]	On	14	
Validations	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 0 of 0]	On	14	
FileMaint	09/02/15 1:00 am	09/02/15 1:00 am	Finished [purged 0 of 8]	On	30	

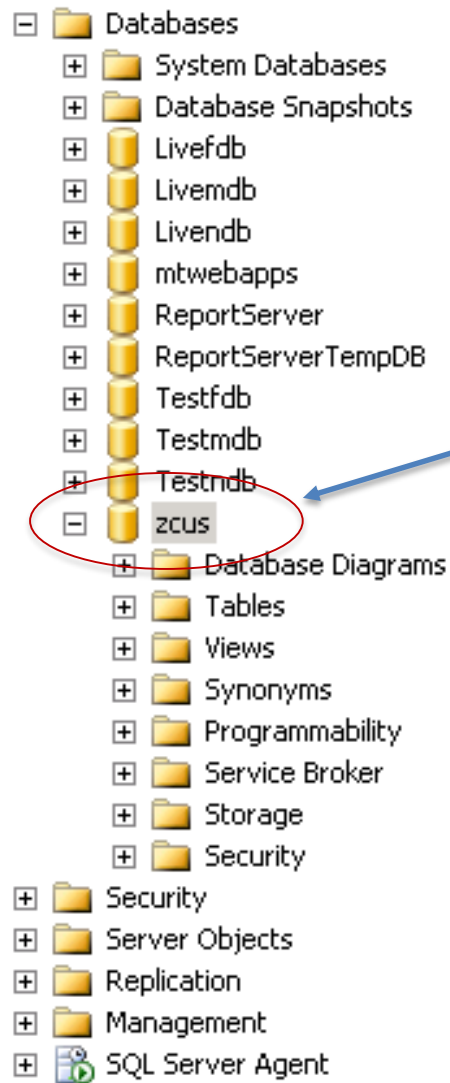
- Monitor
- Audit Logs
- Activity
- Initial Load
- Special IL
- Conversion IL
- Validation
- View Jobs
- Errors
- Exceptions
- Database Logs
- Test Service
- Test ODBC
- Parameters
- Dictionaries
- Field Inquiry

## 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.

Marital Status

**View M-AT Screen Element Information** [X]

Object	MisMaritalStatus
Record	Main
Element	Mnemonic
Expanded Name	Mnemonic
DataType	FILENAME

**Data Repository Information**

Table Name	Column Name
MisMaritalStatus_Main	Mnemonic

Close [X]

View  
New  
Edit  
Report

History Cancel Save [Icons]

Browser address bar: <https://www.meditech.com/prdr/homepageCS.asp>

Client/Server

## Data Repository

Product Homepage Contact Us

- Product Resource Homepages -

**Implementing and Supporting Your System** M C/S 6.x

- 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

**Welcome**  
Take a tour

**Customer Service**  
Information headquarters

**Newsletter**  
Stay connected

**Survey**  
We value your input

**Resource Center**  
For all applications

## 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

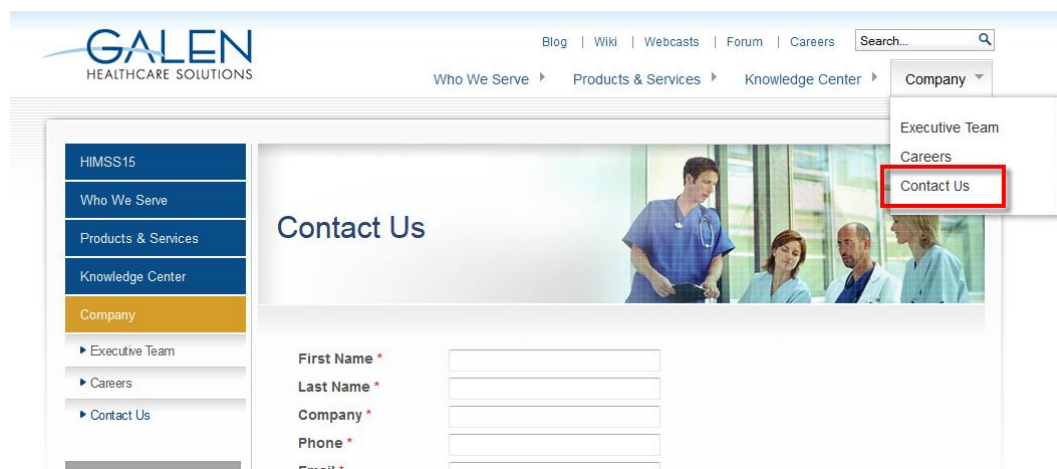
Thank you for joining us today.

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<http://wiki.galenhealthcare.com/Category:Webcasts>

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[www.galenhealthcare.com](http://www.galenhealthcare.com)



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PREPARING FOR TOMORROW.**

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