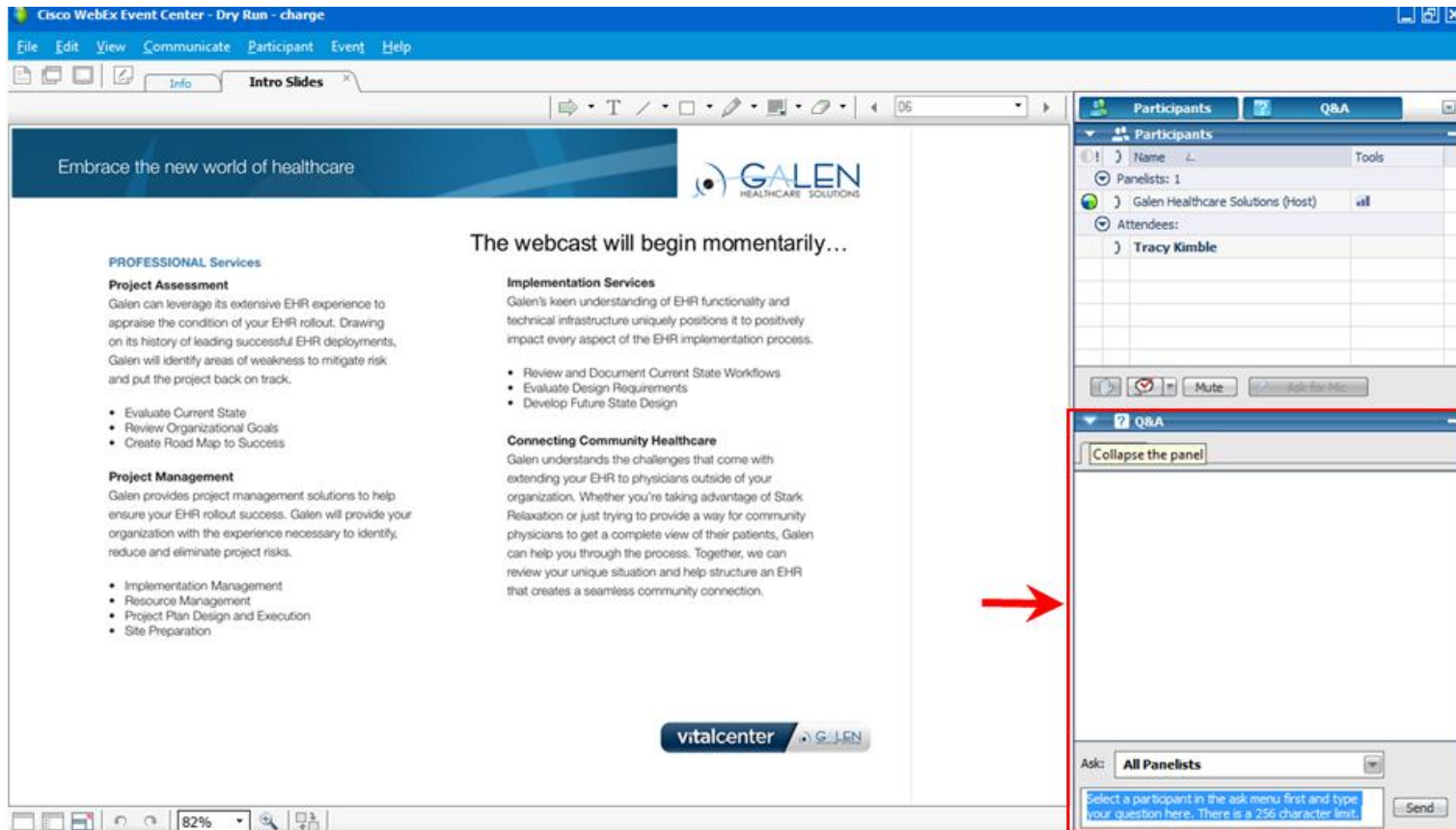


Your phone has been automatically muted. Please use the Q&A panel to ask questions during the presentation!



The screenshot shows a Cisco WebEx Event Center window titled "Cisco WebEx Event Center - Dry Run - charge". The main content area displays a presentation slide with the following text:

Embrace the new world of healthcare

**PROFESSIONAL Services**

**Project Assessment**  
Galen can leverage its extensive EHR experience to appraise the condition of your EHR rollout. Drawing on its history of leading successful EHR deployments, Galen will identify areas of weakness to mitigate risk and put the project back on track.

- Evaluate Current State
- Review Organizational Goals
- Create Road Map to Success

**Project Management**  
Galen provides project management solutions to help ensure your EHR rollout success. Galen will provide your organization with the experience necessary to identify, reduce and eliminate project risks.

- Implementation Management
- Resource Management
- Project Plan Design and Execution
- Site Preparation

**Implementation Services**  
Galen's keen understanding of EHR functionality and technical infrastructure uniquely positions it to positively impact every aspect of the EHR implementation process.

- Review and Document Current State Workflows
- Evaluate Design Requirements
- Develop Future State Design

**Connecting Community Healthcare**  
Galen understands the challenges that come with extending your EHR to physicians outside of your organization. Whether you're taking advantage of Stark Relaxation or just trying to provide a way for community physicians to get a complete view of their patients, Galen can help you through the process. Together, we can review your unique situation and help structure an EHR that creates a seamless community connection.

The webcast will begin momentarily...

At the bottom of the slide, there are logos for "vitalcenter" and "GALEN HEALTHCARE SOLUTIONS".

On the right side of the window, there is a "Participants" panel and a "Q&A" panel. The "Q&A" panel is highlighted with a red border and contains the text "Collapse the panel". Below the "Q&A" panel, there is a "Mute" button and an "Ask for Mic" button. At the bottom of the "Q&A" panel, there is a dropdown menu set to "All Panelists" and a "Send" button. A red arrow points from the "Q&A" panel towards the main content area.

# ConnectR Interface Webcast Series

Advanced Design and Useful Techniques

November 2011

# Welcome

- **Best Practice Techniques**
- **Useful Techniques**
  - Outbound Message Routing
  - Result-Driven Order Reconciliation
  - Interface-Driven Tasking
  - Script Usage
- **Galen Solutions & Upcoming Free Workshop**
- **Q&A – Chat and Live**

## Best Practice Techniques

- **Introduction & questionnaire document**
- **Obtain vendor specification**
- **Obtain vendor sample message**
- **Review Allscripts stored procedure documentation**
- **Ingredients for a successful interface project:**  
**<http://blog.galenhealthcare.com/2009/11/10/ingredients-for-a-successful-interface-project/>**

## Best Practice Techniques Cont.

- **Start with template interface**
- **Load (Extract) proof-of-concept message into/out of Enterprise EHR**
  - File-based interface
  - Winsock Handler
  - [http://wiki.galenhealthcare.com/HL7\\_Editors](http://wiki.galenhealthcare.com/HL7_Editors)

## Outbound Message Routing

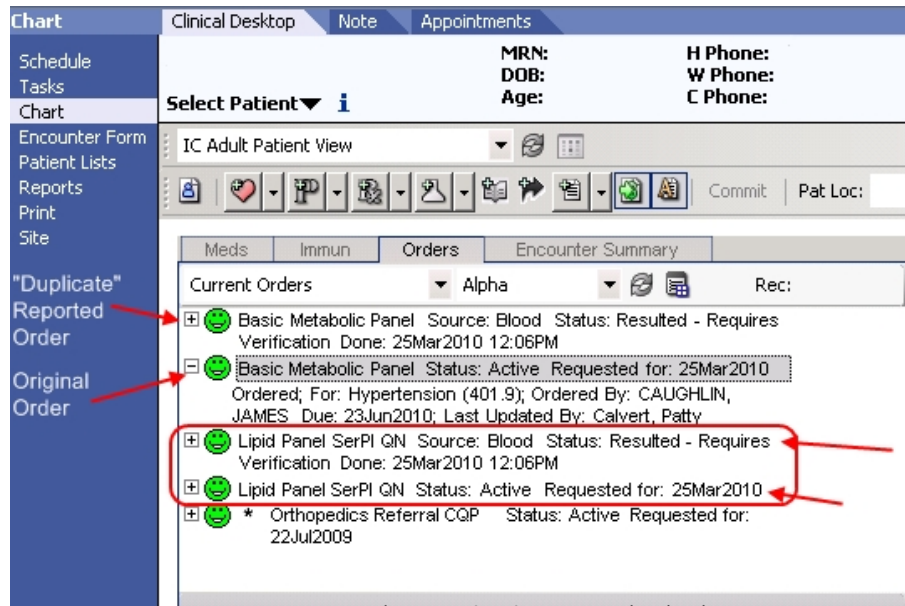
- **Multiple Outbound Interfaces of the Same Type, commonly:**
  - Order – Lab and Radiology
  - Charge – Multiple PM systems in Multi-org
- **Setup**
  - Blocking in ConnectR Mapping
  - T-Tables for Streamlined Maintenance
- **Documentation**
  - [http://wiki.galenhealthcare.com/Outbound\\_Interface\\_Filtering](http://wiki.galenhealthcare.com/Outbound_Interface_Filtering)

# Outbound Message Routing cont.

The screenshot displays a configuration window for message routing. At the top, there are four dropdown menus: Source System (Test Superset Outbound Source - [5000]), Source Message (ORD), Source Msg Desc (V11 Test), Target System (Test Order TW To Quest Target - [5100]), Target Message (ORM), and Target Msg Desc (Test Quest). Below these are two tree views. The left tree shows the source message structure (ORD) with folders for various data extraction tests. The right tree shows the target message structure (ORM) with folders for MSH segments and numbered sections [1] through [8]. A red box highlights the rule '(If Not ASpace(ExtractOrderItem\_CMS.1-[91]-ReqPerfLocCode)' under section [1]. At the bottom, a text box contains the rule description: 'Block Message If ExtractOrderItem\_CMS.1-[91]-ReqPerfLocCode Leading/Trailing Spaces Removed does not equal 'Quest', Or'd with '~\&'.

## Result-Driven Order Reconciliation

- [http://wiki.galenhealthcare.com/AE-EHR\\_Interfaced\\_Result-Driven\\_Order\\_Reconciliation](http://wiki.galenhealthcare.com/AE-EHR_Interfaced_Result-Driven_Order_Reconciliation)
- <http://blog.galenhealthcare.com/2010/10/11/order-reconciliation-woes/>



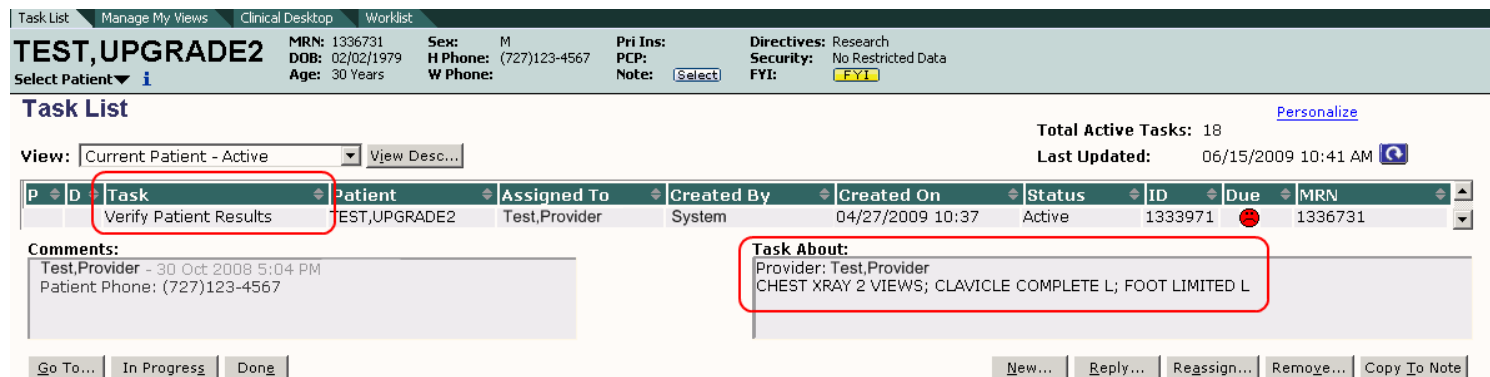
The screenshot shows a clinical desktop interface with a sidebar on the left and a main content area. The sidebar includes options like 'Chart', 'Encounter Form', 'Patient Lists', 'Reports', 'Print', 'Site', and 'Duplicate Reported Order'. The main content area displays 'Current Orders' for a patient, with a list of orders including 'Basic Metabolic Panel' and 'Lipid Panel SerPI QN'. Red arrows point to specific order details and status indicators.

Order ID	Order Name	Source	Status	Notes
+	Basic Metabolic Panel	Blood	Resulted - Requires Verification	Done: 25Mar2010 12:06PM
-	Basic Metabolic Panel		Active	Requested for: 25Mar2010 Ordered; For: Hypertension (401.9); Ordered By: CAUGHLIN, JAMES Due: 23Jun2010; Last Updated By: Calvert, Patty
+	Lipid Panel SerPI QN	Blood	Resulted - Requires Verification	Done: 25Mar2010 12:06PM
+	Lipid Panel SerPI QN		Active	Requested for: 25Mar2010
+	* Orthopedics Referral CQP		Active	Requested for: 22Jul2009



# Interface-Driven Tasking

- **Scenario: Rolling out tasking functionality to only a couple of clinics**
  - Task based upon site order was placed and ordering provider
  - Utilize t-tables and ConnectR mapping logic to manage
- [http://wiki.galenhealthcare.com/Interface-Driven\\_Tasking](http://wiki.galenhealthcare.com/Interface-Driven_Tasking)
- [http://wiki.galenhealthcare.com/Rotating\\_Coverage\\_Tasking](http://wiki.galenhealthcare.com/Rotating_Coverage_Tasking)



The screenshot displays a healthcare tasking interface. At the top, there are navigation tabs: "Task List", "Manage My Views", "Clinical Desktop", and "Worklist". Below these, patient information for "TEST, UPGRADE2" is shown, including MRN (1336731), DOB (02/02/1979), Age (30 Years), Sex (M), H Phone ((727)123-4567), W Phone, Pri Ins, PCP, Note (Select), Directives (Research), Security (No Restricted Data), and FYI (FYI).

The main section is titled "Task List". It includes a "View:" dropdown set to "Current Patient - Active" and a "Vjew Desc..." button. On the right, it shows "Total Active Tasks: 18" and "Last Updated: 06/15/2009 10:41 AM".

A table lists tasks with columns: P, D, Task, Patient, Assigned To, Created By, Created On, Status, ID, Due, and MRN. One task is highlighted with a red box: "Verify Patient Results" for patient "TEST, UPGRADE2", assigned to "Test, Provider", created by "System" on "04/27/2009 10:37", with status "Active", ID "1333971", and MRN "1336731".

Below the table, there are "Comments:" and "Task About:" sections. The "Task About:" section is highlighted with a red box and contains the text: "Provider: Test, Provider" and "CHEST XRAY 2 VIEWS; CLAVICLE COMPLETE L; FOOT LIMITED L".

At the bottom, there are buttons for "Go To...", "In Progress", "Done", "New...", "Reply...", "Reassign...", "Remove...", and "Copy To Note".

# Scripts in ConnectR

- **Uses**
  - Complex Logic
  - Database and File Access
- **Development**
  - Step 1. VBScript
  - Step 2. Mapping
- **Troubleshooting**
  - Test Script in ConnectR
  - Running as .VBS

# Script Usage

The screenshot displays a software interface with a menu bar (File, Edit, Reports, Window, Help) and a toolbar. The main window is titled 'Script' and contains the following information:

- Script:** CheckOldResultStageTest
- Language:** VBScript
- Deactivate:**
- Description:** CheckOldResultStageTest
- Script Usage:** Script Mapping Function

The **Definition** section shows the following code:

```
function CheckOldResultStageTest(OrderNumberEXT,NewResultStage)
Dim oCon
Dim oRS
Dim datasource
Dim vcommand
Dim user
Dim user
Dim pass
Dim OldResultStage

'Pass in Dictionary Name, Field and value to be ssearched for. This script will select against that sql table and see
if there is a match. If Yes, it will return a Y, if No an N will be returned.
'Example:
'Input:
'OrderNumberEXT:TW155440
'NewResultStage: F

datasource = "WorksTest"
user = "connectr"
pass = "connectr"

'Establish the Connection

Set oCon = CreateObject("ADODB.Connection")      This Creates the database object
oCon.Open "Data Source=" & datasource, user, pass  This opens the object -- data source, username, password

'Do the lookup on the dictionary

vcommand = "select top 1 r.ResultStage from Order_Activity oa (NOLOCK) left join Order_Activity_Header oah on oah.OrderN
Item_Result ir on ir.ActivityHeaderID = orm.ResultActivityHeaderID left join Result r on r.ID = ir.CurrentID where oa.OrderN

Set oRS = CreateObject("ADODB.Recordset")
oRS.Open vcommand,oCon, 3, 1, -1

If(oRS.EOF) then
    CheckOldResultStageTest = (NewResultStage)
    exit function
End If

OldResultStage = oRS(0)

If OldResultStage = "F" Or OldResultStage = "C" Then
    CheckOldResultStageTest = "F"
Elseif NewResultStage = "N" Then
    CheckOldResultStageTest = "F"
Else CheckOldResultStageTest = "I"
```

The **Target** window shows a red-bordered error message:

```
Script Error: <10>
Description: Either BOF or EOF is True, or the current record has been deleted. Requested
operation requires a current record. <10>
Line: 34 <10>
Column: 0Script Error: (30).
```

Below the error message, the **Msg Type:** is Application Error, **Msg ID:** is 696394, **Message:** is FileResult\_CMS, and **Length:** is 181.

# Galen Community & Solutions

## Allscripts Interface Developers Network:

<http://interfaces.galenhealthcare.com>



## Clinical Conversion Toolkit:

<http://blog.galenhealthcare.com/2011/04/06/clinical-conversion-toolkit/>



## Solutions Store:

<http://solutions.galenhealthcare.com>

### Featured Solutions:

- Order Cleanup



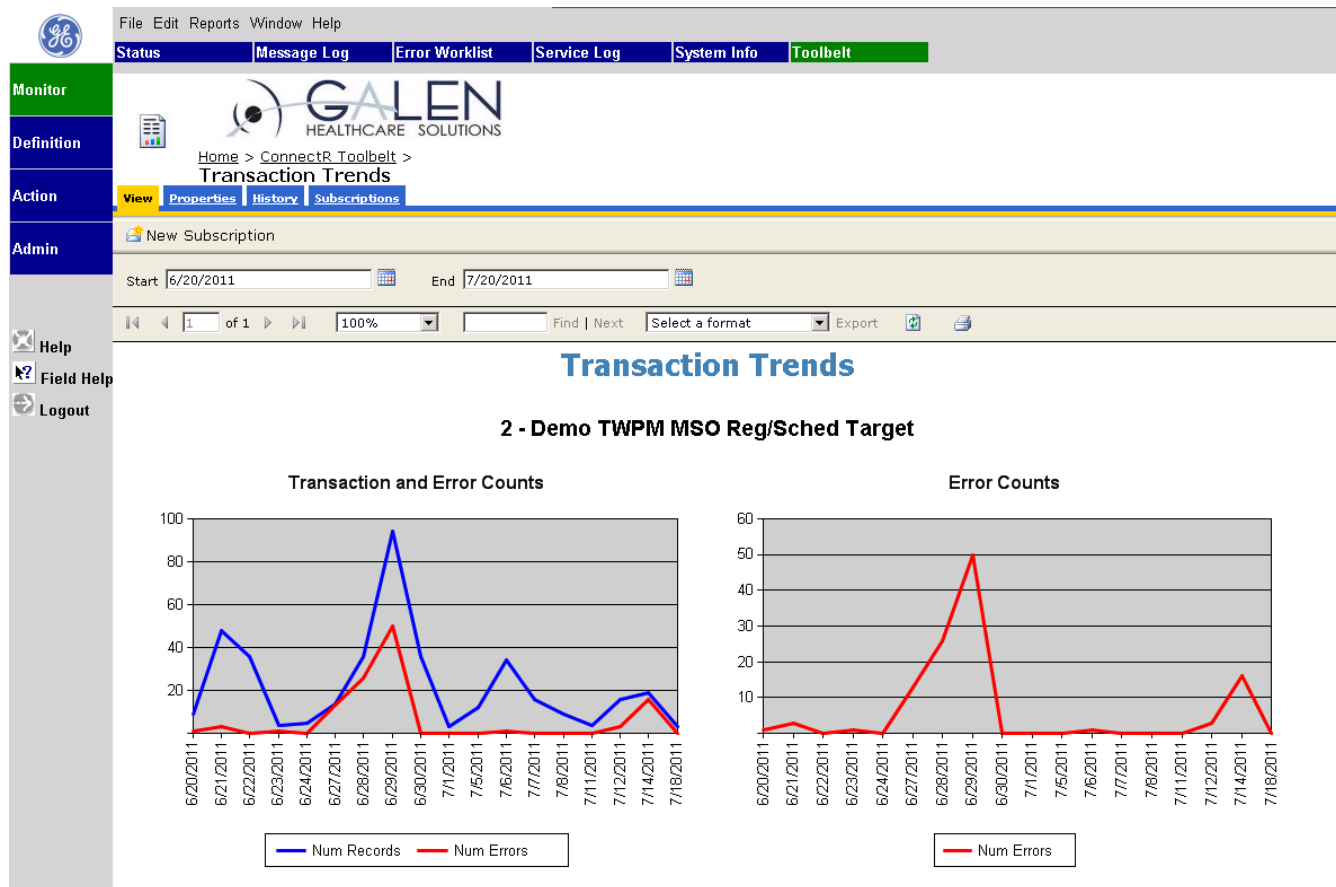
- Task Cleanup



- Worklist Cleanup



# ConnectR Toolbelt



# Announcing Free Result Interface Training!

<http://galenbostoninterfacetraining.eventbrite.com/>

**Who:** [Allscripts Interface Analysts](#)

**What:** [Free Result Interface Training](#)

**Where:** [70 Federal Street, 7th Floor, Boston, MA 02110.](#)

**When:** Wednesday, December 14th, 2011 from 9AM-5PM with lunch provided. There will also be a cocktails and networking hour from 4PM-5PM with beer, wine and light snacks.

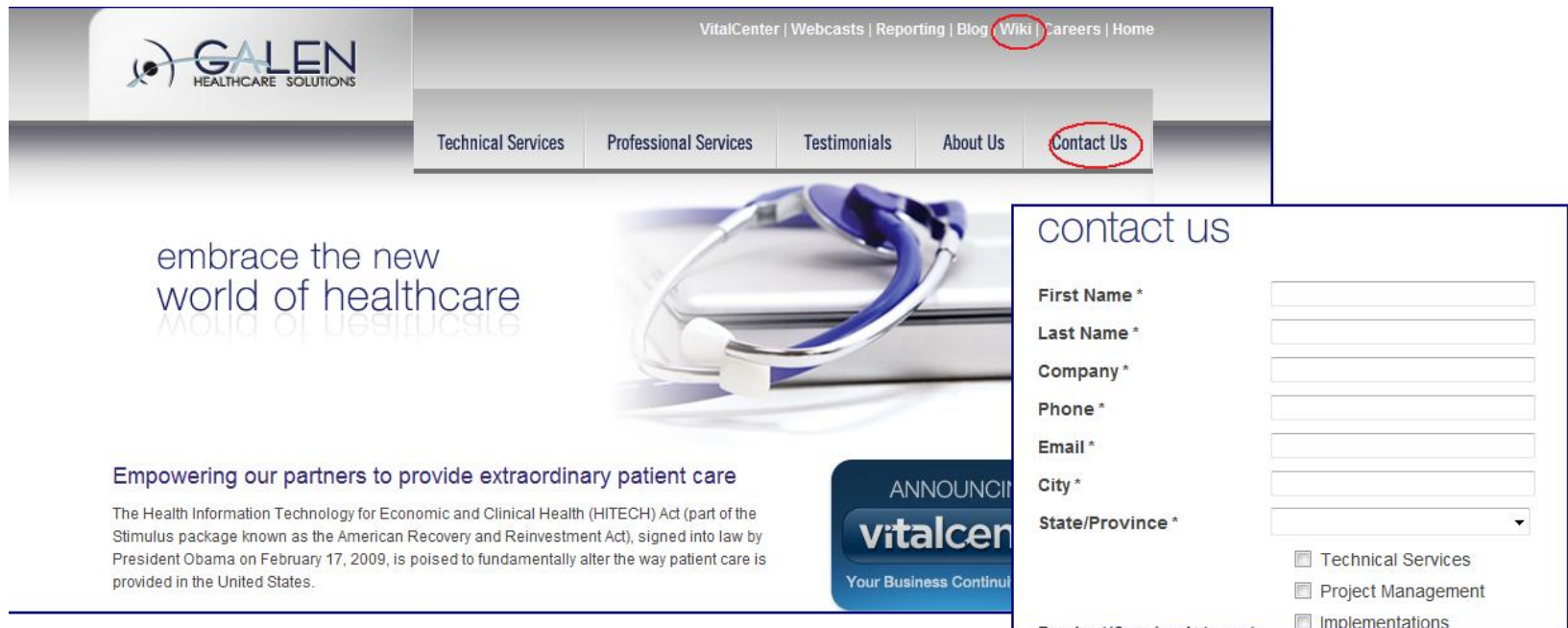
**Why:** Learn about more of the intimate details, nuances, and best-practices surrounding Allscripts result interfaces

## Agenda:

- [Imagelink](#)
- [Reconciliation w/ and w/o electronic order interface](#)
- [Common errors](#)
- [Requisitions](#)
- [Requested Performing Location](#)
- [Auto syncing](#)
- **Much More!**

Thank you for joining us today, for additional assistance....

You can contact us through our website at [www.galenhealthcare.com](http://www.galenhealthcare.com)



The screenshot shows the Galen Healthcare Solutions website. The navigation menu includes: VitalCenter | Webcasts | Reporting | Blog | **Wiki** | Careers | Home. The main menu includes: Technical Services | Professional Services | Testimonials | About Us | **Contact Us**. The contact form is titled "contact us" and includes the following fields: First Name \*, Last Name \*, Company \*, Phone \*, Email \*, City \*, and State/Province \*. Below the form are three checkboxes:  Technical Services,  Project Management, and  Implementations. The website also features a stethoscope image and a section titled "Empowering our partners to provide extraordinary patient care" with text about the HITECH Act.