



# ConnectR Interface Webcast Series

## Advanced Design and Useful Techniques

November 2011

vitalcenter



# 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.

Source System: Test Superset Outbound Source - [5000]      Target System: Test Order TW To Quest Target - [5100]  
Source Message: ORD      Target Message: ORM  
Source Msg Desc: V11 Test      Target Msg Desc: Test Quest

**ORD**

- SupersetData-SupersetData\_CMS Test
- ExtractEncounter\_CMS-ExtractEncounter\_CMS Test
- ExtractPatient\_CMS-ExtractPatient\_CMS Test
- ExtractPerson\_CMS-ExtractPerson\_CMS Test
- ExtractOrderItem\_CMS-ExtractOrderItem\_CMS Test
- ExtractInsurance-ExtractInsurance
- ExtractOrderAdditionalInformationString-ExtractOrderAdditionalInfo T

**ORM**

- MSH-Message header segment
  - [1]-Encoding Characters
    - (If Not ASpace(ExtractOrderItem\_CMS.1-[91]-ReqPerfLocC
  - [2]-Sending Application
    - ExtractOrderItem\_CMS.1-[91]-ReqPerfLocCode
  - [3]-Sending Facility
    - ExtractOrderItem\_CMS.1-[99]-SiteEntryCode
  - [4]-Receiving Application
  - [5]-Receiving Facility
    - 'ASK<32>QUEST<32>FOR<32>THIS'
  - [6]-Date/Time Of Message
    - Dt/Tm - Now to HL7(NOW)
  - [7]-Security
  - [8]-Message Type
    - 'ORM^001'

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/>

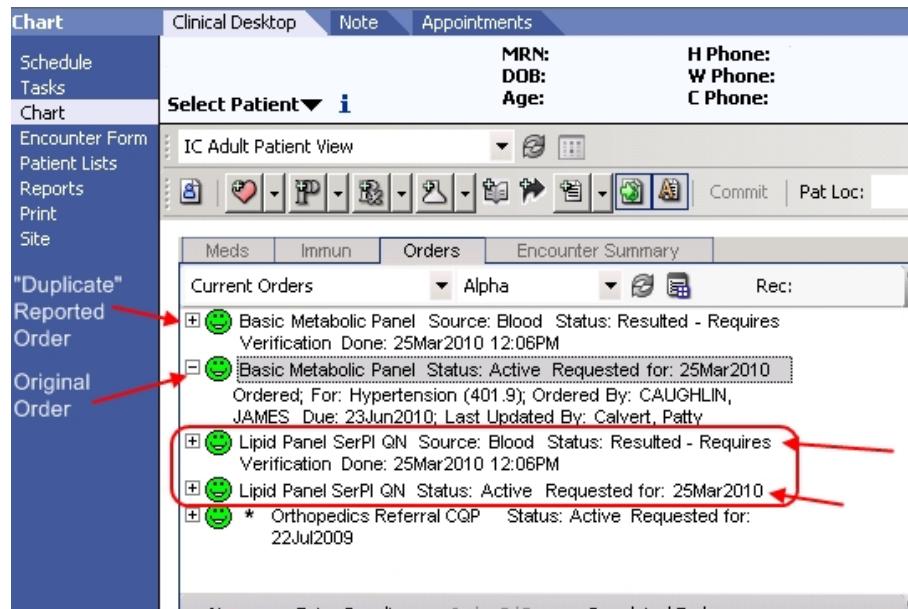


Chart Clinical Desktop Note Appointments

Select Patient ▾ i

IC Adult Patient View

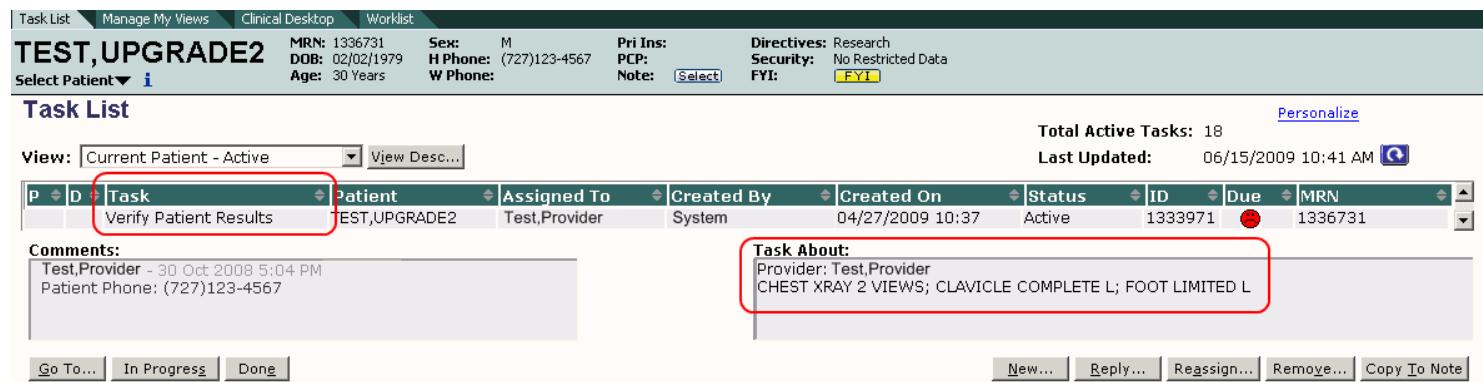
Meds Immun Orders Encounter Summary

Current Orders Alpha Rec:

- [+] Basic Metabolic Panel Source: Blood Status: Resulted - Requires Verification Done: 25Mar2010 12:06PM
- [+] Basic Metabolic Panel Status: Active Requested for: 25Mar2010 Ordered; For: Hypertension (401.9); Ordered By: CAUGHLIN, JAMES Due: 23Jun2010; Last Updated By: Calvert, Patty
- [+] Lipid Panel SerPI QN Source: Blood Status: Resulted - Requires Verification Done: 25Mar2010 12:06PM
- [+] Lipid Panel SerPI QN Status: Active Requested for: 25Mar2010 \* Orthopedics Referral CQP Status: 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 shows the Vitalcenter software interface. At the top, there's a header bar with links for 'Task List', 'Manage My Views', 'Clinical Desktop', and 'Worklist'. Below the header, patient details are displayed: MRN: 1336731, Sex: M, DOB: 02/02/1979, Age: 30 Years, H Phone: (727)123-4567, W Phone: . Underneath this, a 'Task List' section is shown. A specific task row is highlighted with a red box: 'Verify Patient Results' assigned to 'TEST,UPGRADE2' by 'Test.Provider' on '04/27/2009 10:37' with status 'Active'. The 'Comments' field contains: 'Test.Provider - 30 Oct 2008 5:04 PM' and 'Patient Phone: (727)123-4567'. The 'Task About' field also has a red box around it, containing: '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

File Edit Reports Window Help

Message System Mapping Translation **Script** Date Format Error Server

**Monitor** Script: CheckOldResultStageTest Language: VBScript  Deactivate

**Definition** Description: CheckOldResultStageTest Script Usage: Script Mapping Function

**Action**

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

'Pass in Dictionary Name, Field and value to be searched 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.Cur
Item_Result ir on ir.ActivityHeaderID = oah.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 = ""
End If
```

**Admin**

**Help** **Field Help** **Logout**

**Target**

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).

Msg Type:	Application Error	Msg ID:	696394
Message:	FileResult_CMS	Length:	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



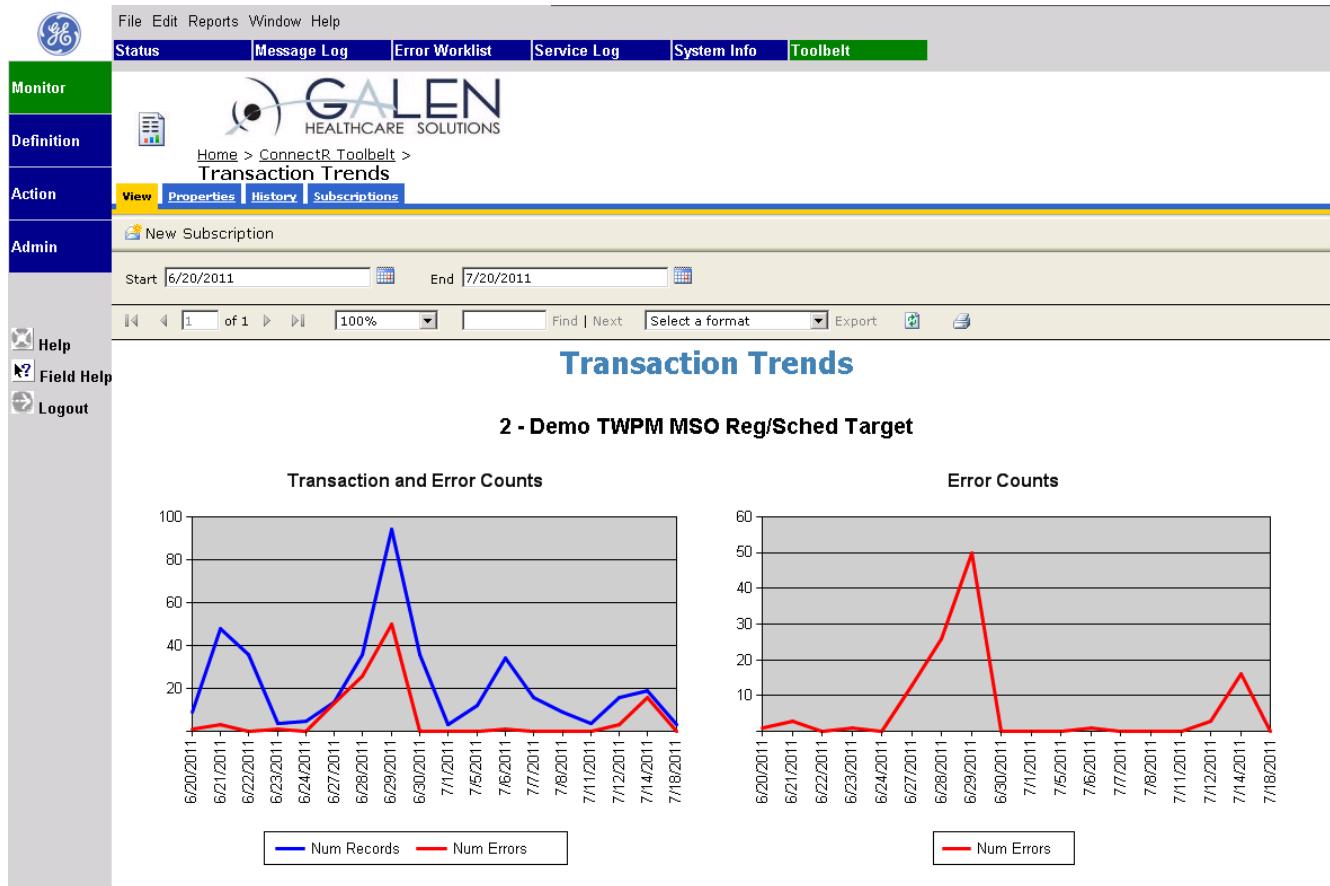
- Task Cleanup



- 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 synching](#)
- [Much More!](#)

Embrace the new world of healthcare



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

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

A screenshot of the GALEN Healthcare Solutions website. The header includes the GALEN logo, navigation links for VitalCenter, Webcasts, Reporting, Blog, Wiki, Careers, and Home, and a main menu with Technical Services, Professional Services, Testimonials, About Us, and Contact Us. The Contact Us link is circled in red. The page features a banner with a stethoscope and the text "embrace the new world of healthcare". A sidebar on the right contains a "contact us" form with fields for First Name\*, Last Name\*, Company\*, Phone\*, Email\*, City\*, State/Province\*, and checkboxes for Technical Services, Project Management, and Implementations. A "vitalcenter" logo is also present.