

Order-Result Integration

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Welcome

- What is an Orderable and a Resultable?
- Orderable and Resultable Build
 - Application
 - ConnectR
- What is Order Syncing?
 - Order Syncing in the Application
 - Order Syncing in ConnectR
- Orderable and Resultable Tables in the Works Database
- Common ConnectR Errors
- Q&A – Chat and Live

What is an Orderable and a Resultable?

- An Orderable item is any clinical item that can be ordered by an organization or practice
 - Two categories: Medication and Non-medication
 - Ex: Q10495 could correspond to a CBC to be performed at Quest Diagnostics
- A Resultable item is an actual result that is associated with a given order/test
 - Results, typically referred to as analytes, are always an attribute of an order
 - Ex:Q10007 Red Blood Cell Count
 - Ex:Q10008 White Blood Cell Count
- Resultables need to be tied to orderable in the dictionary

Why are Orderable Items Important?

- **Orderable Item**
 - The code the vendor sends back needs to be the same code that was sent to the vendor on the requisition
- **Touchworks Order Number**
 - Order number that is associated to one order/test
- **Requisition Number**
 - Number that is associated with a group of tests/orders
- **Practices can choose the Touchworks order number or the requisition number to close the order**
 - The Touchworks order number is the better choice because it is tied to only one test and is therefore easier to troubleshoot when issues arise.

Building Orderable items in the Application

- Two categories
 - Medication and non-medication
- Entry Code/Entry Mnemonic
 - Used in ConnectR interface mapping
 - Used to match order to result
- Entry Name
 - Used to appear in the EHR as the test name
- NDC Codes, CPT Codes, LOINC Codes, Medcin ID
- Default Communication Method
 - Print Requisition, Send to Performing Location
- RID Selector
 - Resultables must be added to orderables

Building Orderable items in the Application

TW Admin Hide VTB Tools Help Lock Log

Dictionaries Dictionaries

CareGuide Admin
Charge Admin
Chart Admin
Comm Admin
Concept Mapping
Dictate Admin

Dictionary: Orderable Item

- Non-Medication
 - Laboratory
 - Instructions
 - Precautions
 - Supplies
 - Other Diagnostic Testing
 - Clinical Findings
 - Dx Imaging
 - Follow Up
 - Referrals
- Medication, Immunization and Pharmac
 - **Allscripts Defined Vaccines****
 - **Locally Defined Medications**
 - **Locally Defined Vaccines**
 - *ALTERNATIVE MEDICINES*
 - *AMEBICIDES*
 - *AMINOGLYCOSIDES*
 - *ANALGESICS - ANTI-INFLAMMAT

Code	Name	Mnemonic	Inactive	Enforced
CV2102	Attenuvax Subcutaneous Injectable (S...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV6793	Diphtheria-Tetanus Toxoids 6.7-5 LF...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV6796	Diphtheria-Tetanus Toxoids 2-5 LFU I...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV7607	Engerix-B 10 MCG/0.5ML Intramuscul...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV7608	Engerix-B 20 MCG/ML Intramuscular I...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV10889	Ipol Subcutaneous Injectable (SC)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV12564	M-M-R II Subcutaneous Injectable (SC)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV12570	M-R-Vax II Subcutaneous Injectable		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV9900	HibTITER Intramuscular Solution		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV18380	Recombivax HB 40 MCG/ML Injection...		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV13185	Menomune Subcutaneous Injectable (...)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV13280	Meruvax II Subcutaneous Injectable (...)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CV21192	Tetanus Toxoid Adsorbed 5 LFU Intra...		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add

Charge/MN

When to Charge: Charge Code:

CPT4 Code: [Admin Initial Charge Code:](#)

Picklist Search

powered by Allscripts

Building Resultable Items in the Application

- **Entry Code/Entry Mnemonic**
 - Used in ConnectR interface mapping
 - Used to match order to result
- **Entry Name**
 - Used to appear in the EHR
- **Answer Data Type**
 - Must be filled out or result will fail in ConnectR
- **Default Units of Measure**
- **Sync Resultable item to Orderable item in the OID**

Building Resultable Items in the Application

TW Admin Hide VTB Tools Help Locks Logout

Dictionary: Resultable Item 0 of 1618 Total Items

Search: Name Starting With Grid

Code	Name	Mnemonic	Inactive	Enforced
Q123456	White Blood Cells	Q123456	<input type="checkbox"/>	<input type="checkbox"/>
Q9876	Red Blood Cells	Q9876	<input type="checkbox"/>	<input type="checkbox"/>

Detail

Display Name: LOINC ID: ...

Answer Data Type:

Unit Picklist:

Default Units of Measure:

Precision:

Increments:

Minimum Allowable Value:

Maximum Allowable Value:

Add Report Search

powered by **IDX**

Save Cancel

User: TWAdmin Site: New World Health User: Admin,Base System: Physician Homebase

Mapping Orderable/Resultable Items in ConnectR Order Interface

- Resultable item is not mapped in ConnectR in the outgoing ORM to the vendor
- The orderable item entrycode is mapped from the superset source to OBR 4.1
- The orderable item entryname is mapped from the superset source to OBR 4.2

Mapping Orderable/Resultable Items in ConnectR Order Interface

The screenshot displays the GE ConnectR Order Interface with the following configuration:

- Source System:** Test Superset Outbound Source - [5000]
- Target System:** Test Orchard Order Target - [7050]
- Source Message:** ORD
- Target Message:** OrchardOrder
- Source Msg Desc:** v11 Test Galen Demo
- Target Msg Desc:** v11 - HL7 test

The mapping configuration is shown in two panes:

- Left Pane (Source):** A list of source items including `ExtractOrderItem_CMS.1-[12]-Item_Annotation_By` through `ExtractOrderItem_CMS.1-[29]-OrderingProviderID`. The item `ExtractOrderItem_CMS.1-[28]-OrderedItemClassName` is selected.
- Right Pane (Target):** A tree view of target items including `OBR-Observation Order Segment`, `[1]-Sequence Number`, `[2]-Requester Accession or Specimen ID`, `[3]-Producer Accession ID`, `[4]-Observation Battery ID`, `[5]-Not Defined`, `[6]-Not Defined`, `[7]-Observation/Specimen Collection Date/Tim`, `[8]-Observation/Specimen Collection End Time`, `[9]-Urine Volume`, `[10]-Collector Identifier`, and `[11]-Action Code`. The item `ExtractOrderItem_CMS.1-[26]-OrderedItemClassCode ^ ExtractOrderItem_CMS.1-[28]-` is selected.

The mapping expression at the bottom is: `ExtractOrderItem_CMS.1-[26]-OrderedItemClassCode Concatenated with ^ to ExtractOrderItem_CMS.1-[28]-OrderedItemClassName`

At the bottom of the interface, the **Mapping Type** is set to `Map`, **Order** is `1`, and there is a **Disallow Import Overwrite** checkbox.

Mapping Orderable/Resultable Items in ConnectR Result Interface

- **QoIn**
 - Resultable Mapping Parameter
- **QoForm**
 - Entrycode (C), Entrymnemonic (M), Entryname (N), ID (I)
- **QoClassificationIn**
 - Orderable Mapping Parameter
- **QoClassForm**
 - Entrycode (C), Entrymnemonic (M), Entryname (N), ID (I)

Mapping Orderable/Resultable Items in ConnectR Result Interface

The screenshot displays the 'Mapping' tab in the ConnectR interface. The top menu includes File, Edit, Reports, Window, and Help. Below the menu are tabs for Message, System, Mapping (selected), Translation, Script, Date Format, Error, and Server.

Configuration fields include:

- Source System: Test RIS-IC Results Source - [307]
- Target System: Test TW RIS-IC Results Target - [308]
- Source Message: ORU
- Target Message: FileResult_CMS
- Source Msg Desc: ORU - RIS-IC Result Msg
- Target Msg Desc: 11.1.7 Test

On the left, a tree view shows the source system structure:

- ORU
 - MSH
 - PID-Patient identification segment
 - PV1-Patient Visit Segment
 - ORC-ORC
 - OBR-OBR
 - NTE-Order Level
 - OBX-OBX
 - OBX.1-[1]-Set ID-OBX
 - OBX.1-[2]-Value Type
 - OBX.1-[3]-Observation Identifier**
 - OBX.1-[4]-Observation Sub-ID
 - OBX.1-[5]-Observation Value
 - OBX.1-[6]-Units
 - OBX.1-[7]-Reference Range
 - OBX.1-[8]-Abnormal Flags
 - OBX.1-[9]-Probability
 - OBX.1-[10]-Nature of Abnormal Test

The right pane shows the target system structure:

- 'C'
 - [77]-TestingProviderIN
 - [78]-TestingProviderForm
 - [79]-OrderingProviderIN
 - (Table RISIC - RIS to TW Provider((ASpace(OBR.1-[16]-Ordering Provider.1.1.0) | ASpace(C
 - [80]-OrderingProviderForm
 - 'C'
 - [81]-QoIN
 - OBX.1-[3]-Observation Identifier
 - [82]-QoForm
 - 'C'
 - [83]-QOClassIN
 - Pce(OBR.1-[4]-Placer Group Number.1.1.0/,1)
 - [84]-QOClassForm
 - 'C'
 - [85]-SourceIN
 - If Table RISIC - Block Result codes(Upper(ASpace(Pce(OBR.1-[4]-Placer Group Number.1.
 - [86]-SourceForm

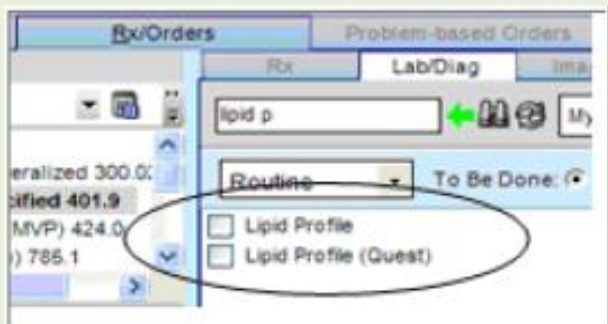
At the bottom, the 'Mapping Type' is set to 'Map', 'Order' is 1, and there is a 'Disallow Import Overwrite' checkbox. A 'Switches' button is also visible.

What is Order Syncing?

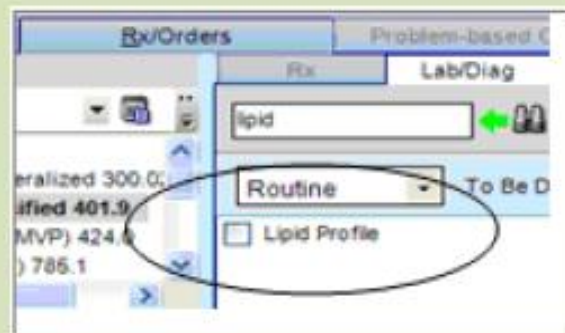
- Hospitals need order syncing when they send their labs to multiple vendors
- The different vendors are call RPLs, requested performing locations
- There is one set of orderable items that is called parent dictionary
 - Usually this is the main hospital lab
- The other orderable items from secondary vendors (RPLS) will be synced to the main parent dictionary
 - Example: Quest and Labcorp will be synced to the Hospital orderable item
 - Hospital CBC orderable item= H67000
 - Quest CBC orderable item= Q67000
 - Labcorp CBC orderable item L67000

What is Order Syncing?

Without Order Synchronization



With Order Synchronization



Prerequisites for Syncing Orderable Items

1. Identify Master Laboratory or Radiology Vendor
2. Obtain the Utilization Report & Compendium (Item Master) from the additional Laboratory or Radiology Vendors.
3. Review/Modify the Order Communication Method Picklists
4. Review/Modify the Requested Performing Location Dictionary
5. Populate Orderable Item Dictionary

Prerequisites for Syncing Orderable Items

- Communication Method

TW Admin Hide VTB Tools ? Help Lock Logoff

Dictionaries Dictionaries

CareGuide Admin
Charge Admin
Chart Admin
Comm Admin
Concept Mapping
Dictate Admin

Dictionary: Communication Method **Enforced** 18 of 18 Total Items

Code	Name	Mnemonic	Inactive	Enforced
1	Interface	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Manual	M	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	None	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Record	Record	Record	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PrintRx	Print Rx	PrintRx	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PrintReq	Print Requisition	PrintReq	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PrintLbl	Print Label	PrintLbl	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Retail	Send To Retail	Retail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mail	Send To Mail Order	Mail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RPL	Send to Performing Location	RPL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DispSamp	Dispense Sample	DispSamp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RqstAdmin	Request Administration	RqstAdmin	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perform	Perform Order	Perform	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CallRx	Call Rx	CallRx	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CallOrder	Call Order	CallOrder	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DispRx	Dispense Rx	DispRx	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DispOrder	Dispense Order	DispOrder	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PrtReqLbl	Print Requisition and Label	PrtReqLbl	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Allscripts 6

powered by Add Picklist Report Search

Prerequisites for Syncing Orderable Items

- Requested Performing Location

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Dictionaries

CareGuide Admin
Charge Admin
Chart Admin
Comm Admin
Concept Mapping
Dictate Admin

Dictionary: Requested Performing Location 29 of 29 Total It

Code	Name	Mnemonic	Inactive	Enforced
RndTown	Around Town Optics		<input type="checkbox"/>	<input type="checkbox"/>
Cards3	Associates in Cardiovascular Medicine	Cards3	<input type="checkbox"/>	<input type="checkbox"/>
AGI	Associates in Gastroenterology	AGI	<input type="checkbox"/>	<input type="checkbox"/>
CHW	Catholic Health West Lab	CHW	<input type="checkbox"/>	<input type="checkbox"/>
Cards2	Community Cardiology Associates	Cards2	<input type="checkbox"/>	<input type="checkbox"/>
Ortho2	Fletcher Orthopedics and Sports Medicine	Ortho2	<input type="checkbox"/>	<input type="checkbox"/>
1	Hospital Lab	Oth	<input type="checkbox"/>	<input type="checkbox"/>
InOffice	In Office	InOffice	<input type="checkbox"/>	<input type="checkbox"/>
RPI - ehl	lab vendor - ehl	RPI - ehl	<input type="checkbox"/>	<input type="checkbox"/>

Notification/Transmittal

Notify when order is discontinued : Transmit order when initially becomes on hold :

Notify when order is cancelled : Transmit every order edit while on-hold :

Notify when order is Invalidated : Transmit order when initially becomes active :

Notify when order is completed : Transmit every order edit while active :

Order interface is used : Transmit order when it is cancelled :

Transmit order when it is discontinued :

Transmit order when it is invalidated :

Destination ID : Destination Site ID :

Default billing location :

Add Picklist Report Search

powered by Allscripts

Order Syncing in the Application

- Order syncing is done in the orderable item dictionary in the requested performing location section
- Secondary Resultable items need to be synced to the master orderable item

⤴ **Performing**

List of Valid Communication Methods: Default Communication Methods:

Overdue Interval Routine: Overdue Interval Stat:

Overdue Interval ASAP: Overdue Interval Today:

OverDue Important? OverDue Date and Time Required? Expiration Interval:

[Requested Performing Location Identifiers](#)

Select Requested Performing Location & Add Specific Identifiers [X]

Dictionary: Requested Performing Location Orderable Item: Laboratory

Search: EntryCode [v] Starting With [v] [] []

There are no items to show in this view

Requested Performing Location Specific Identifiers

Orderable Item: Laboratory

Requested Performing Location: []

Name: []

Code: []

Mnemonic: []

[OK] [Cancel]

Mapping Order Syncing in ConnectR

- ReqPerfLocationIn
 - Requested performing location associated with orderable Item
- ReqPerfLocationForm
 - Entrycode (C), Entrymnemonic (M), Entryname (N), ID (I)
- AltQOClassificationIn
 - Orderable item
- AltQOClassificationForm
 - Entrycode (C), Entrymnemonic (M), Entryname (N), ID (I)
- This mapping will override QOClassIn

Mapping Order Syncing in ConnectR



File Edit Reports Window Help

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

Source System: Test SoftLab Results Source - [300] Target System: Test SoftLab to Works Target - [7072]
 Source Message: ORU Target Message: FileResult_CMS
 Source Msg Desc: ORU- SoftLab Target Msg Desc: Shared - v11.1.7

Monitor
Definition
 Action
 Admin

Help
 Field Help
 Logout

- ORU
 - MSH-Message header segment
 - PID-Patient identification segment
 - NTE-Notes and comments segment2
 - PV1-Patient Visit Segment
 - ORC-Common order segment
 - NTE-Notes and comments segment3
 - OBR-Observation request segment
 - OBR.1-[1]-Set ID - OBR
 - OBR.1-[2]-Placer Order Number
 - OBR.1-[3]-Filler Order Number +
 - OBR.1-[4]-Universal Service ID**
 - OBR.1-[5]-Priority
 - OBR.1-[6]-Requested Date/time
 - OBR.1-[7]-Observation Date/Time #
 - OBR.1-[8]-Observation End Date/Time #
 - OBR.1-[9]-Collection Volume *
 - OBR.1-[10]-Collector Identifier *
- [114]-TaskTypeCode
 - "
- [115]-TaskPriorityName
 - "
- [116]-BillingProviderIn
- [117]-BillingProviderForm
- [118]-BillingLocationIn
- [119]-BillingLocationForm
- [120]-ReqPerfLocationIn
 - 'Quest'
- [121]-ReqPerfLocationForm**
 - 'C'
- [122]-AltQOClassificationIN
 - OBR.1-[4]-Universal Service ID
- [123]-AltQOClassificationForm
 - 'C'
- [124]-ReqNumberEXT
- [125]-SSMTFlag

FileResult_CMS.1-ReqPerfLocationForm Data type: c255

Mapping Type: Map Script: Order: 1 Disallow Import Overwrite

Orderable and Resultable Tables in Works

- [Qo_Classification_DE](#)
 - Orderable item table in Works database
- [QO_DE](#)
 - Resultable item table in Works database
- [QO_Class_QO](#)
 - Table that shows the Resultable items that are tied to orderable items

Order Syncing Table in Works

- **OrderItem_Identifier**
 - This table shows how secondary vendors are connected to the master dictionary

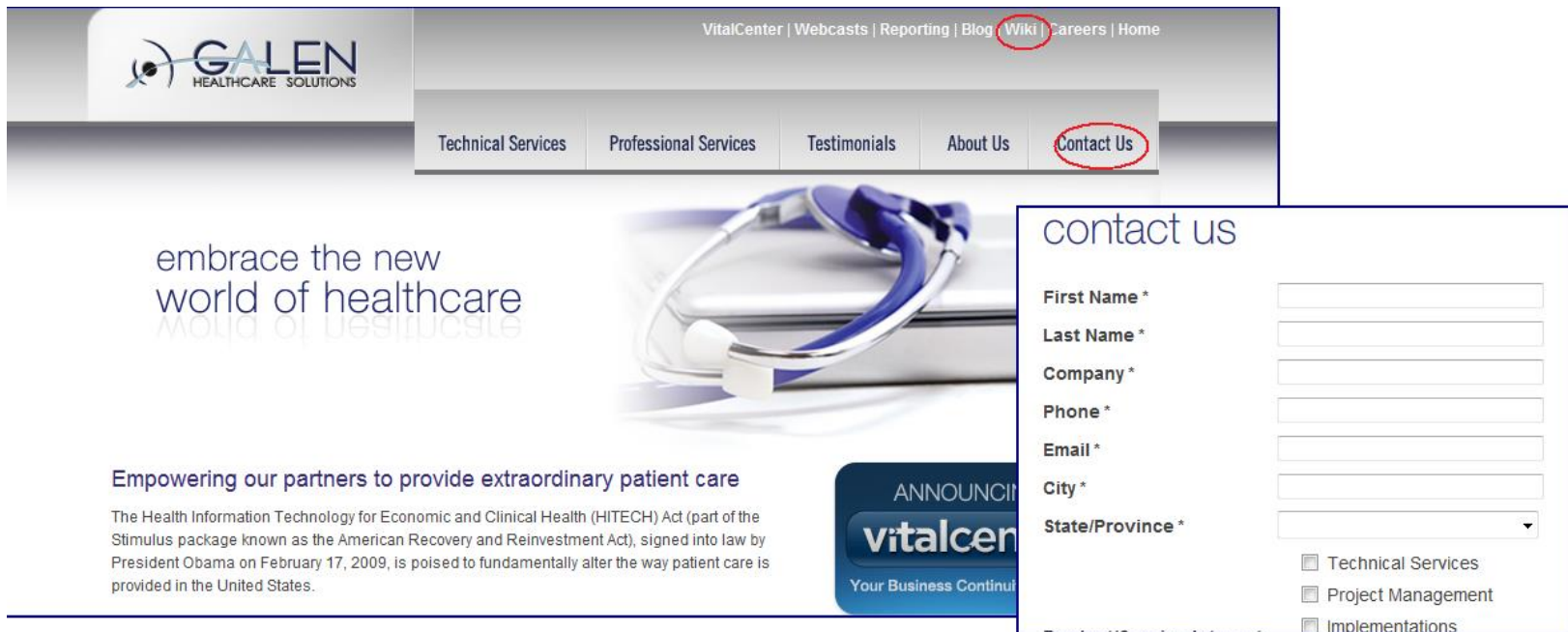
	ID	QOClassDE	ReqPerfLocDE	EntryName	EntryCode	EntryMnemonic
1	1	3518	13	HLA B27	303	303
2	2	3518	12	HLA-B27 Ag	48215PLM	48215PLM
3	3	49	13	CROSSMATCH RBC	51	51
4	4	3519	13	HLA DR TYPING, CIRBC	307	307
5	5	3520	13	HLA CROSSMATCH	308	308
6	6	3521	13	PLATELET ANTIBODY SCREEN (IgG)	311	311
7	7	3522	13	CULTURE FUNG BLOOD	1010	1010
8	8	3522	12	Culture, Fungus (BLOOD)	39522LM	39522LM
9	9	3523	13	C DIFF TOXIN	1017	1017
10	10	3523	12	C DIFF TOXIN (BLOOD)	39523LM	39523LM

Common Orderable/Resultable ConnectR Errors

- -145 Error
 - Resultable item is not tied to orderable item
- -603 Error
 - Orderable item is not in Orderitem_identifier table
- -2005008 Error
 - Resultable item is not in QO_DE table
- -2005003 Error
 - Orderable item is not in QO_Classification_De table
- http://wiki.galenhealthcare.com/ConnectR_Interface_Errors

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

You can contact us through our website at www.galenhealthcare.com



The screenshot shows the GALEN Healthcare Solutions website. The top navigation bar includes links for VitalCenter, Webcasts, Reporting, Blog, Wiki, Careers, and Home. A secondary menu below it contains Technical Services, Professional Services, Testimonials, About Us, and Contact Us. The main content area features the slogan "embrace the new world of healthcare" and a stethoscope graphic. A text block discusses the HITECH Act. A "contact us" form is overlaid on the right side, containing fields for First Name, Last Name, Company, Phone, Email, City, and State/Province, along with checkboxes for Technical Services, Project Management, and Implementations.

VitalCenter | Webcasts | Reporting | Blog | Wiki | Careers | Home

Technical Services | Professional Services | Testimonials | About Us | Contact Us

embrace the new world of healthcare

Empowering our partners to provide extraordinary patient care

The Health Information Technology for Economic and Clinical Health (HITECH) Act (part of the Stimulus package known as the American Recovery and Reinvestment Act), signed into law by President Obama on February 17, 2009, is poised to fundamentally alter the way patient care is provided in the United States.

ANNOUNCING
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