

Galen Healthcare Solutions

Allscripts to Epic Conversion – Q&A

7/10/2013

Embrace the new world of healthcare

Agenda

- **Introductions**
- **Benefits of a Conversion**
- **Different Types of Conversions**
- **Conversion Process**
- **Technical Conversion Overview**
- **Q&A**

Introductions

- **Julia Snapp, Managing Consultant for Epic**
- **Justin Campbell, Director of Technical Services**
- **Polls:**
 - What is your current role at your organization?
 - Where are you in the conversion process?

Benefits of Converting

- **No need to start from scratch**
 - Some healthcare organizations have been live for 10+ years
- **Conversions allow for continuity between historical data and post production data**
- **Providers can use the discrete data to continue to build the chart**
 - Discrete lab results allow the converted data to seamlessly graph with production data
- **What should you convert?**
 - Is the value of the data diminished if it doesn't come over discretely?
- **Garbage In = Garbage Out**

Sample Allscripts to Epic Conversion

- **Encounters**
- **Final Resulted Lab Orders and Results**
- **Final Resulted Radiology Orders and Results**
- **Notes (limited to Office, Consult, H&P, and Procedure Notes)**
- **Vitals (Temp, Pulse, Respiration, Height, Weight, O2, Pain Scale, HC, LMP, etc.)**
- **Current Medications**
- **Active Allergies**
- **Active Problems**
- **Not in scope: Scanned documents, future and standing orders, note types not listed above, immunizations, flowsheet data, resolved problems, meds, allergies)**

Conversion Process

- **Extract legacy data**
- **Compile Mapping Workbooks**
- **Mapping legacy data to Epic's model system**
 - Some cases it may make sense to create new masterfile entries vs. mapping to Epic's model system
- **Translate Mapped data into HL7 format and load**
- **Test and Validate converted data**
- **Load into Production**
- **Validate Production data**
- **Issue Resolution**

Conversions – Discrete Option

- Extraction of discrete data from the legacy source EHR system as available including Allergies, Immunizations, Medications, Problems, Results, Scanned Images, Documents, and Vital Signs.
- Discrete data and scanned image import by a conversion analyst including analysis of data mappings.
- XML-based patient CCDs and corresponding metadata are extracted from the Allscripts system. CCDs are imported into Epic via Patient Transporter

Conversion – Non-Discrete Option

- Comprehensive extraction of source EHR patient chart to include all available discrete clinical data elements rendered to a well-formatted.
- If available, an extract of CCD documents (one per patient) and conversion to .pdf will be triggered.
- Extraction of notes, conversion from native format to .pdf and import into Epic via Bridges.
- Extraction of scans, conversion of native format to .pdf. and import into Epic via Bridges.

What Tools Does Galen Have?

- **What tools does Galen have to assist with the conversion?**
 - Professional Side
 - Allscripts to Epic Functionality Comparison document
 - Allscripts to Epic Terminology Crosswalk
 - Training Strategy
 - Focus on the easy wins
 - Technical Side
 - Conversion Platform
 - Intelligent Mapper
 - Conversion Validation
 - Data Archiving Application

We are Live with Epic in our Inpatient Hospital?

- **We are live with Epic in our Inpatient hospital. We are planning on converting our Allscripts Enterprise system into our live Epic system. What do we need to consider?**
 - Communication to Project Team and End-Users
 - Strong Change Management process
 - Reconciling a patient's inpatient and ambulatory record
 - How do you communicate with the end-users that the conversion is finished for that patient.

Roll-Out Considerations

- **During the transition, consider freezing remaining roll-outs of Allscripts clinics**
 - AHS team is already lean
 - Gives them the ability to support sites that are already live
 - Less data will need to be converted during the migration
 - Need to consider MU attestation, PCMH, etc
 - One more transition for end-users
- **Organizations may need to implement different strategies for sites that are live on AHS vs. sites that haven't gone live yet.**

Conversion Background

- **Breadth of Experience**

- Hosted and local source systems
- Source database technologies including MySQL, PostgreSQL, SQL Server, DB2
- Vendor list including Allscripts, Epic, Greenway, NextGen, Merge, eCW
- PM, Radiology & EHR systems
- Strategic partner for organizations:
 - Moving implementations from one platform to another
 - Acquiring smaller practices and consolidating existing clinical applications

- **Automated Platform**

- Nomenclature/concept mapping, archival, validation

Conversions – Scoping Elements

- **Source System**
- **Target System**
- **# of Providers**
- **# of Years of Data**
- **# and Types of Specialties**
- **Scale – DB Size, Image/Scan footprint**
- **Existing Interfaces**

Conversions – Source System Assessment

Record Analysis

Item	Notes	Count
Appointment Encounters	All complete appointments	850,000
Lab Results	All in a stage of 'Final' excluding EIE	380,000
Vitals	All except for EIE	2,556,150
Radiology Results	All in a stage of 'Final' excluding EIE	9,000
Transcriptions	All except for invalidated	825,000

Compendium Analysis (Items tied to a record)

Compendium	# of Items
Appointment Encounters	85
Lab Results	1,353
Vitals	56
Radiology Results	90
Transcriptions	150

Conversion Data Elements - HL7 Data Elements

- **Demographics:** Patient demographic record inclusive of insurance and guarantor data
- **Appointment Encounters:** All historical appointment encounters
- **Vital Signs:** Patient vital sign history
- **Results:** All types of results, including Laboratory, Radiology, Cardiology, Microbiology, Pathology, Blood Bank, Point of Care, Multiple extracts are required based upon the makeup of results in AE-EHR
- **Transcription:** Structured and Unstructured Notes

Conversion Data Elements – CCD Data Elements

- **Allergies:** Medication and non-medication allergies
- **Medications:** Current Medications
- **Problems:** Includes Active Problems, Past Surgical History, Past Medical History, Family History, and Social History
- **Immunizations:** Patient immunization history

Conversions – Data Archive Environment Software

- Repository/Read-only environment housing legacy EHR data.
- Leveraging a web-based interface, users have full search, print and export capabilities.
- Simple, Secure Chart Access
- Single point of access for several legacy clinical applications
- Patient Audit log access
- Configurable PDF exports of charts and scans

The screenshot displays the VitalCenter Web Access interface. At the top, there are navigation links for 'justin.campbell | Logout', 'VitalCenter Web Access Help', 'Support Site', 'E-Mail', and 'VitalCenter Wiki'. The main interface is divided into sections for patient selection and chart viewing.

Patient Selection Section:

- Buttons: **Schedule**, **On Demand**
- Form: Select Patient
- Org: New World Health
- Patient: Clark
- Search: [Name] [Search] [Include InActive]
- Request VitalChart

Name	MRN	DOB	SSN	Sex	InActive
CLARK, LYDIA	100026	6/12/1924 12:00:00 AM		Female	False

Chart View Section:

- Buttons: **Schedule**, **On Demand**
- Sub-sections: **VitalChart**, **Scans**
- Header: **VitalChart**
- Patient: CLARK, LYDIA
- DOB: 6/12/1924
- Gender: Female
- Home Phone: (617) 365-1212
- Work Phone:
- Patient MRN: 100026
- PCP: McCarthy, Maureen
- Last Appt Date: 4/12/2013 8:00 AM
- Last Appt Provider: ALAMS, JILL
- Cell Phone:

Problems Table:

Problem	ICD-9	Onset	Status	Notes
Active				
Angina Pectoris	411.9		Active	
Aspirin	846.02		Active	
Asthma	495.92		Active	
Congestive Heart Failure	495.0		Active	
Coronary Artery Disease	411.02		Active	
Depression	311		Active	
Diverticulosis	562.10		Active	
Jaw Pain, Localized In The Jaw (Jaw)	528.9		Active	
Normal Routine History And Physical Geriatric (80 +)	V70.0		Active	
Trichomonas Of The Cervix	59.09		Active	
Type II Diabetes Mellitus	250.02		Active	
Unverified				
Vaginitis	618.10		Active	
PMH				
History of Bipolar Depressive Disorder	296.02		Resolved	

Other Elements:

- Navigation: Show Problems, Show All, Show Med, Show Vita, Show Imm, Show Ord
- Buttons: Show On Demand Request
- Footer: justin.campbell | Logout, VitalCenter Web Access Help, Support Site, E-Mail, VitalCenter Wiki

Conversions – Intelligent Mapper

Delivers automated suggestions to increase efficiency and accuracy when mapping source data to the targeted nomenclature/codification in the new system.

Dictionary Mapping Workbook

Client Name
Project Name

This workbook contains mappings between code sets for a variety of EHR concepts, ranging from laboratory order codes to document type codes. For each code set, there is a dedicated worksheet that should be filled out as completely as possible. Additionally, each worksheet should contain contextual information, such as what the source and target values represent, what systems the values come from, and details on any decisions which are not obvious to an reader outside the project.

Table of Contents

Worksheet	Description
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- [Allergens](#)
- [Allergy Reactions](#)
- [Immunizations](#)
- [Medications](#)
- [Route of Admin](#)

Medications							
Medications in Enterprise EHR are stored per medication, strength and formulary. As a result, the translation table below shows each medication currently used in XYZ System with each variation of name, strength and formulary.							
ECW/Multum Code	ECW Name	ECW Strength	ECW Formulary	Usage Count	EEHR Medication Name	EEHR Medication Code	EEHR Medication NDC
835	Vicodin	500 mg-5 mg	tablet	33117			
13189	ASA/carisoprodc	81mg	tablet	27474			
12176	hydrochlorothiaz	25 mg	tablet	18099			
12197	lovastatin	40 mg	tablet	14887			
12437	lisinopril	10 mg	tablet	14334			
12437	lisinopril	20 mg	tablet	12972			
112	Cipro	500 mg	tablet	11543			
13426	metformin	500 mg	tablet	11505			
11940	atenolol	25 mg	tablet	10816			
31755	Protonix	40 mg	enteric coated table	10538			
12437	lisinopril	40 mg	tablet	10105			
11940	atenolol	50 mg	tablet	10007			
12197	lovastatin	20 mg	tablet	9755			
12447	simvastatin	20 mg	tablet	9512			
12447	simvastatin	40 mg	tablet	8959			

Conversions – Automated Validation

- Provides a second level of validation to the integrity of the data entering the Epic system without compromising project milestones.
- Through an automated process of validating the staged middle tier data loaded into the EHR database, this tool delivers a summary and detail of errors, defects and overall statistics.

Conversion Validation

Item Set Summaries

Item Set Name	Valid	Invalid	Missing	Duplicate	Unverified Items	Failed	OK Failed
Allergies	2508	5	0	0	505	68	514
Immunizations	0	146	0	0	1	0	38
Medications (Inactive)	0	0	0	0	0	0	0
Medications History	134	0	0	0	96	0	104
Problems	1127	0	0	2	74	21	81

Item Set Details

Item Set Details

Choose an Item Set below to review the validation issues related to data that has either successfully or unsuccessfully loaded into Enterprise EHR.

Allergies

Result	Audit ID	Item ID	Target ID	Audit Checksum	Item Checksum	Patient MRN	Error Code	Mec
Failed	10917	1d4aa3f2dca7						
Failed	10917	e370f9ab-b441-428e-af45-cbbad36e9779			-753093546	602801531	-100	109
Invalid	9939	25bdff94-ecd2-4ece-a115-0243b47a44ee	24633815800...	811273045	1874982285	602359308		241
Invalid	7789	ee65178d-c1e0-45fc-ada4-10472d7825e9	24633507100...	-563780466	1384190316	700982911		
Invalid	8907	4ba9f926-98de-4acf-91db-5e488920f450	24633669300...	-231717201	-185709272	701230782		
Invalid	8575	b69aca28-27c4-489a-8049-68fab4cdd5b3	24633621600...	950553691	1985009259	200588822		
Invalid	9681	adc46000-fdfd-4a2d-887e-efa361e71bc4	24633778700...	-492835983	-1619447807	701092733		

Conversions - Roles

- **Conversion Analyst:** Analyze design decision impacted by data conversion, perform data mapping, EHR configuration and data validation & testing
- **Project Manager:** Project plan development, responsible for keeping the conversion project on track & managing key deliverables and timelines.
- **Conversion Technician:** Extract data from legacy system, analysis of data mappings, and import into target system

Q & A

Upcoming Webcasts

“Clinical Data Conversions: Functional and Technical Considerations Webcast” this Friday at 2PM EST.

<https://galenhealthcarewebinars.webex.com/mw03071/mywebex/default.do?siteurl=galenhealthcarewebinars>

Additional Questions?

Thank you for attending and participating in our webcast!

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