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

<table>
<thead>
<tr>
<th>Item</th>
<th>Notes</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appointment Encounters</td>
<td>All complete appointments</td>
<td>850,000</td>
</tr>
<tr>
<td>Lab Results</td>
<td>All in a stage of 'Final' excluding EIE</td>
<td>380,000</td>
</tr>
<tr>
<td>Vitals</td>
<td>All except for EIE</td>
<td>2,556,150</td>
</tr>
<tr>
<td>Radiology Results</td>
<td>All in a stage of 'Final' excluding EIE</td>
<td>9,000</td>
</tr>
<tr>
<td>Transcriptions</td>
<td>All except for invalidated</td>
<td>825,000</td>
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Compendium Analysis (Items tied to a record)

<table>
<thead>
<tr>
<th>Compendium</th>
<th># of Items</th>
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<tbody>
<tr>
<td>Appointment Encounters</td>
<td>85</td>
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<tr>
<td>Lab Results</td>
<td>1,353</td>
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<tr>
<td>Vitals</td>
<td>56</td>
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<tr>
<td>Radiology Results</td>
<td>90</td>
</tr>
<tr>
<td>Transcriptions</td>
<td>150</td>
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</table>
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
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

<table>
<thead>
<tr>
<th>Worksheet</th>
<th>Description</th>
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<tr>
<td>Allergens</td>
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<td>Allergy Reactions</td>
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<tr>
<td>Immunizations</td>
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<tr>
<td>Medications</td>
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<td>Route of Admin</td>
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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.

<table>
<thead>
<tr>
<th>ECW/Multum Code</th>
<th>ECW Name</th>
<th>ECW Strength</th>
<th>ECW Formulary</th>
<th>Usage Count</th>
<th>EEHR Medication Name</th>
<th>EEHR Medication Code</th>
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<td>835</td>
<td>Vicodin</td>
<td>500 mg-5 mg</td>
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<td>enteric coated tablet</td>
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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.
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/mw0307l/mywebex/default.do?siteurl=galenhealthcarewebinars
Additional Questions?

Thank you for attending and participating in our webcast!

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