

Background

With the healthcare IT community migrating toward the exchange of Clinical Documents and Meditech being the most widely-used HIS vendor, Dynamic Health IT has responded to the need for a tool and service for sending and receiving CCD and CCR clinical documents via the Meditech Magic and Client/Server platforms.

CCDConnect Meditech is an application that allows Meditech hospitals to send and receive Clinical Documents (CCD and CCR). CCDConnect works with any version of Meditech and satisfies several of the ARRA HITECH requirements related to exchange of clinical information.

Definitions

- CCD – We use this to refer to both the ASTM Continuity of Care Record (CCR) and the Continuity of Care Document (CCD) HL7 standard. The HL7 CCD standard actually resulted from a collaborative effort between HL7 and ASTM to harmonize the data format between ASTM’s Continuity of Care Record (CCR) standard and HL7’s Clinical Document Architecture (CDA) standard.
- HIE – Health Information Exchange. We use this as a “blanket” mnemonic to refer to any organization that needs to send and receive CCD’s (see above), including RHIOs, RECs, LECs, payors, etc.
- HL7Connect – Full-featured interface engine from Kestral™ in Australia that facilitates exchange of HL7 message and CCD’s.

Sending CCD’s:

There are two scenarios where CCDConnect sends CCD’s.

- 1) Automatically, based on the following parameters:
 - # of days after admission/registration
 - # of days after discharge
 - A menu selection indicating where we are sending the CCD.
 - Whether the patient has “opted in” or “opted out”
 - Patient Type
 - Financial Class
 - Insurance Plan

When a patient qualifies based on the parameters, a Custom Query extracts data for the CCD.



- 2) On demand, from a custom Meditech screen where the user can enter key patient identifiers:
 - a. Acct #
 - b. Medical Rec #
 - c. Name
 - d. DOB
 - e. SSN, etc.

And also an indicator of where to send the CCD.

In either the automatic or “on demand” scenario, the data is sent to HL7Connect, which packages it into the required CCD format and transmits the resulting CCD document to an HIE using their preferred protocol (web portal, TCP/IP socket, FTP, etc.)

Receiving CCD’s:

There are two scenarios where CCDConnect receives CCD’s.

- 1) Based on a query to the HIE:
 - a. The user chooses a custom screen in Meditech that allows entry of where we are sending the CCD and key patient identifiers:
 - i. Name
 - ii. DOB
 - iii. SSN, etc.
 - b. When they’re done, the data is passed to HL7Connect, which creates a query to the HIE.
- 2) Unsolicited: The HIE will send CCD’s based on its own rules and trigger events.

Presenting CCD Data to Users:

After receiving the CCD’s, HL7Connect parses the CCD’s for display in a user-friendly format. The contents are readily accessible to clinicians, as follows:

Options:

- 1) If the hospital has an inbound “HL7 Other Vendor Reports to MEDITECH ITS” interface, we convert the CCD to an ORU and send via this interface.
- 2) Through a custom viewer/lookup screen/application invoked from a custom menu in Meditech. This screen will allow the user to:
 - a. Browse CCD’s
 - b. Lookup a particular CCD based on key patient identifiers.CCD content will be displayed in a human-readable format.
- 3) By alerting clinicians when a new CCD is received.

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