Proposal for Demonstrating at California Connects 2014

Use this template to communicate critical information for each demonstration proposed for the **2014 California Connects Interoperability Exhibition**, to be held at the *Connecting California to Improve Patient Care in 2014* conference sponsored by Redwood MedNet.

Prospective participants in California Connects 2014 must complete a proposal following this template for each proposed demonstration, and submit it for approval to the California Connects Steering Committee via email c/o Karen Boruff at karen.boruff@ca-hie.org. Please see the California Connects 2014 page at http://www.ca-hie.org/projects/california-connects-2014 for more information. Direct any questions to Karen Boruff at karen.boruff@ca-hie.org or Rim Cothren at robert.cothren@ca-hie.org.

1. Demonstration Synopsis

Please provide a title for your demonstration and a brief description of the demonstration. Try to limit the description to no more than 100 words. The title and description will appear on our web site in advance of the Exhibition to attract meeting participants to your demonstration.

Hospital Sends Patient Visit Alert to PCMH

Registration of a patient at Healdsburg District Hospital (HDH) triggers an evaluation of the registration by the Redwood MedNet visit alerting service. Redwood MedNet inspects the hospital visit registration and compares the hospital patient to the Patient Centered Medical Home (PCMH) registry as published by Alliance Medical Center (AMC). If a patient that registered at HDH is also on the PCMH registry for AMC, then Redwood MedNet prepares a visit alert message using the HL7 MDM message specification. The visit alert is sent to Alliance Medical Center, where the message is routed in their CEHRT (Epic hosted by OCHIN) to the PCMH care team for the patient.

2. Demonstration User Story

Please provide a user story describing the demonstration, with specific emphasis on its clinical relevance. Be specific, illustrating how you will weave the technology you are demonstrating into real clinical flow.

A primary care provider (PCP) at a community clinic wants the patient centered medical home (PCMH) care team to receive a simple alert in their certified EHR (CEHRT) when one of the care team's patients presents at the nearby community hospital. A local health information exchange organization (HIO) maintains a current registry of all patients in the clinic's PCMH cohort. The PCMH registry is updated in real time by an ADT feed from the CEHRT at the community clinic. The HIO also receives a real time ADT feed from the local community hospital. The HIO builds a patient visit registry for the hospital. On each patient visit at the hospital the HIO does a look up against the PCMH registry for the community clinic. When a patient match is found, the HIO generates a simple alert, formats the alert as an MDM message addressed to the PCP care team for the patient, and delivers the message to the CEHRT at the community clinic.

3. Goals and Objectives of the Demonstration

Please provide a brief description of the goals and objectives of the demonstration, emphasizing what you expect your audience to learn. Be sure to indicate how your demonstration aligns with the objectives and guidelines found in the California Connects Demonstration Charter at http://www.ca-hie.org/projects/california-connects-2014/charter.

- Support PCMH care team with patient visit alert from an unaffiliated healthcare facility
- Demonstrate use of classic HL7 push messaging
- Demonstrate value of community HIO service

4. Participant Information

4.1. Primary Organization

Name of the organization Alliance Medical Center

Role in the demonstration PCMH care team receives alert of a patient visit from hospital

4.2. Supporting Organization(s)

Name of the organization Healdsburg District Hospital

Role in the demonstration participates in the alerting process

Name of the organization Redwood MedNet

Role in the demonstration build and operate the alerting process

4.3. Demonstration Sponsor(s)

Name of the organization Alliance Medical Center

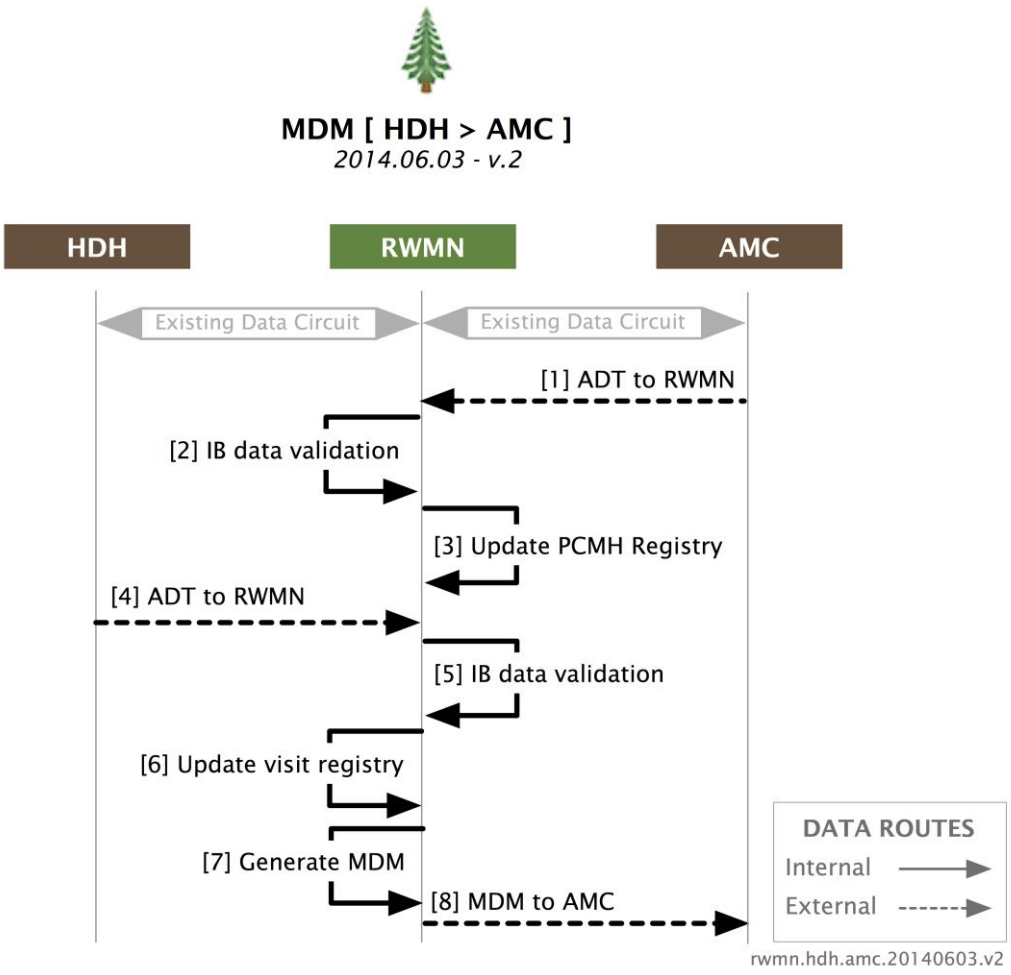
Role in the demonstration Support CTO participation in California Connects

5. Technical Information

5.1. Business Workflow

Please provide a description of the business workflow for the user story, showing the various actors and systems involved in the health information exchange. A diagram may be used.

See diagram on next page.



Alliance Medical Center - *Epic Ambulatory (hosted by OCHIN)*
[1] ADT to RWMN

Redwood MedNet - *Mirth Connect*
[2] RWMN filters Epic ADT against inbound (IB) data validation rules for RWMN

[3] RWMN updates PCMH registry for AMC

Healdsburg District Hospital - *HMS*
[4] ADT to RWMN

Redwood MedNet - *Mirth Connect*
[5] RWMN filters HMS ADT against inbound (IB) data validation rules for RWMN

[6] RWMN updates HDH patient visit registry

[7] RWMN identifies match for AMC patient on HDH visit, generates MDM visit alert

Alliance Medical Center - *Epic Ambulatory (hosted by OCHIN)*
[8] RWMN sends MDM visit alert to AMC

5.2. Technical Standards

Please provide a brief discussion of the technical transport and content standards used in the demonstration. Include security, authentication and authorization standards as necessary. Please review http://www.ca-hie.org/projects/california-connects-2014/charter for the technical priorities for California Connects 2014.

This demonstration illustrates the use of HL7 v2.3.1 ADT and MDM message formats integrated with CEHRT at a PCMH (Epic Ambulatory 2014 hosted by OCHIN at an FQHC). Mutual TLS is implemented for security of PHI while in flight. Both sites (hospital and the primary care clinic) are participants in the RWMN trust community.

6. Maturity of the Demonstrated Technologies

Please describe the maturity of the technologies highlighted in your demonstration, and when they might be available for use, and what barriers there are to reducing them to practice, if any. Technologies in the demonstration might be emerging and experimental, under development and soon to be available, or commercially available now.

This demonstration uses:

1. HL7 v2.3.1 published in 1999
2. TLS v1.2 published in 2008 (RFC 5246)
3. OpenVPN v2.x released in 2009
4. MirthConnect open source integration engine v2.x

The demonstration shows a pilot test of a proposed operational feature. Currently in development, the alerting service may be operational by the time of the California Connects event on July 25. The tools are all open source.