Microsoft

California Connects with Direct Messaging

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2012-07-19

Happy second birthday Direct!

Redwood MedNet HIE Conference 2010

NHIN Direct Demonstration

v.20100709.g

MirthResults client app

Redwood MedNet HISP

SMTP server

XDR gateway

Dr. R.M.

Message Routing
From: Dr. R.M. (RM@nhin1.rwmn.org)
To: Dr. Bob (bob@nhind.santacruzhie.org)
Payload: XDM xip file

WHIN

Long Beach HISP

REST client app

servlet listening for or making REST calls

SMTP server

1

2

HealthVault PHR untethered

Gordon Fakepatient

CC

Dr. L.B.

Message Routing
From: Dr. L.B. (LB@nhin.whinit.org)
To: Dr. R.M. (RM@nhin1.rwmn.org)
Payload: XDM zip file

SCHIE Santa Cruz Health Information Exchange

Santa Cruz HISP

SMTP server

3

email client app

Dr. Bob

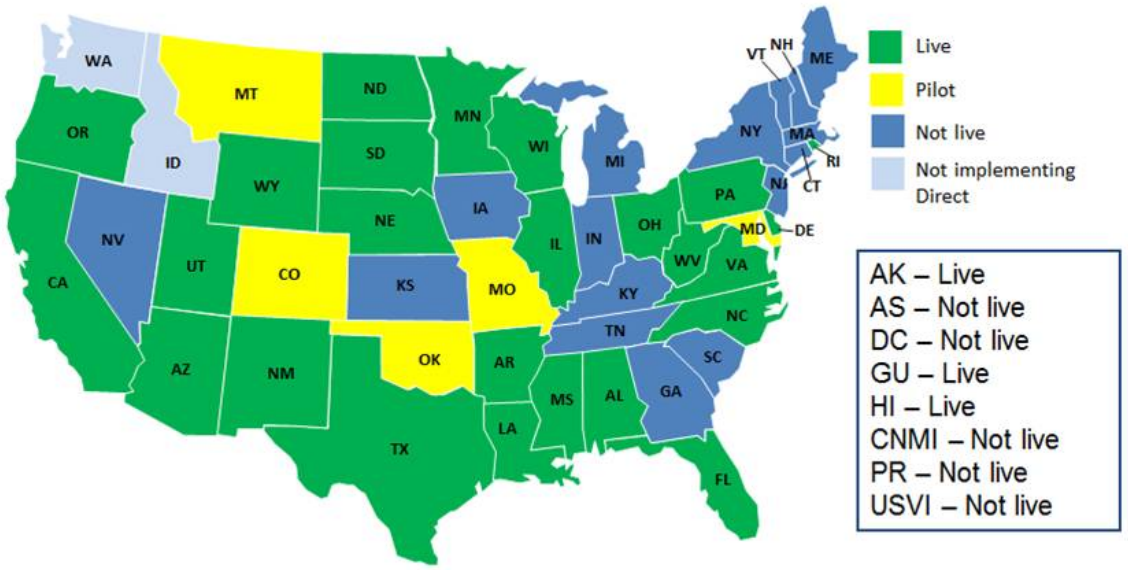
Federated message service via backbone protocol

Local message service via local HISP protocol

MedPlus mirth HARRIS Microsoft

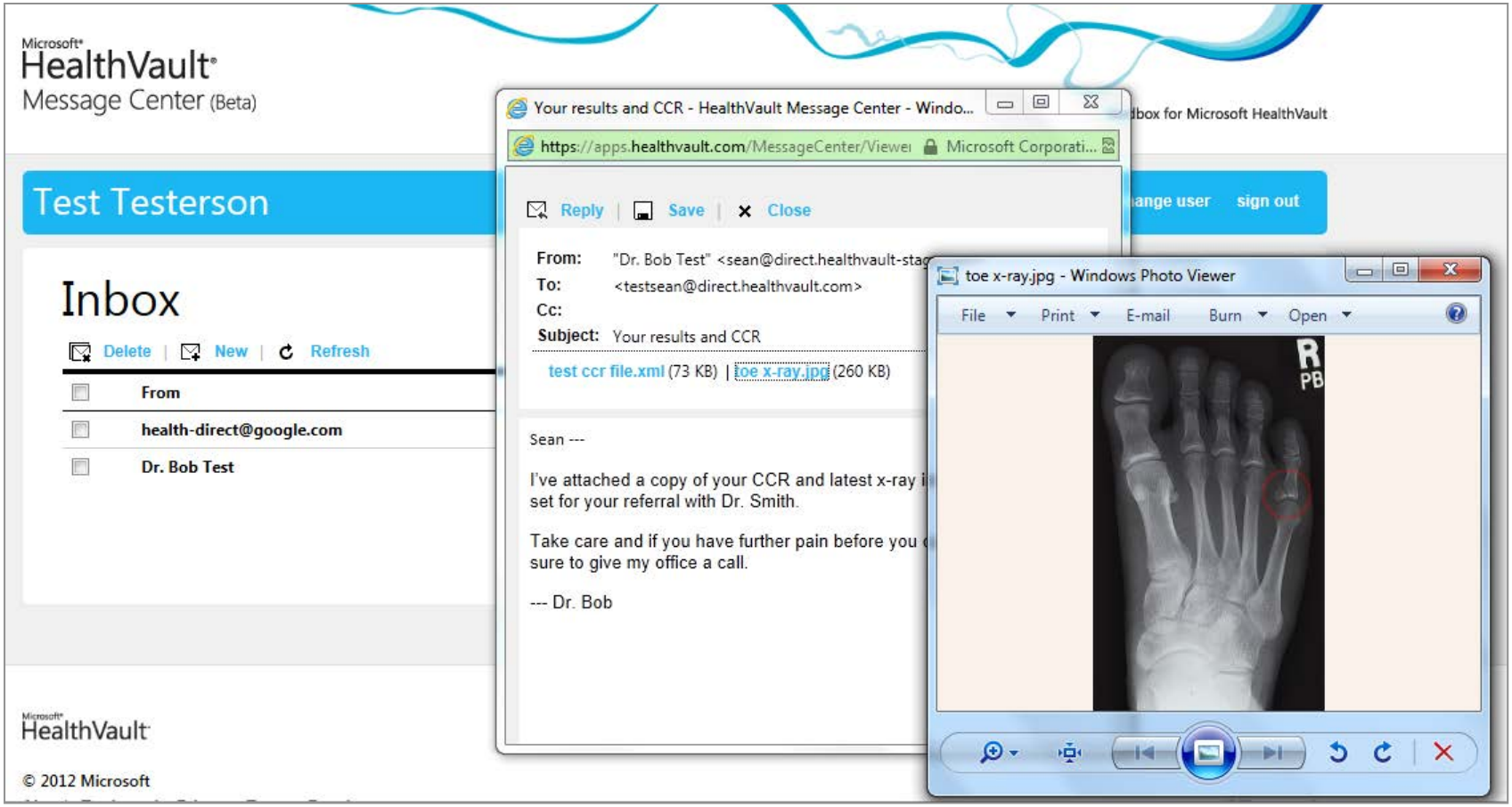
Message Routing
From: Dr. S.C. (SC@nhin.santacruzhie.org)
To: Dr. R.M. (rm@nhin1.rwmn.org)
cc: Gordon Fakepatient PHR
Payload: CCR via XDM xip file

Feels slow … but making progress!



From a patient perspective, more than **two dozen** organizations are currently sending information to HealthVault via Direct … with more than **seventy-five** in the test environment.

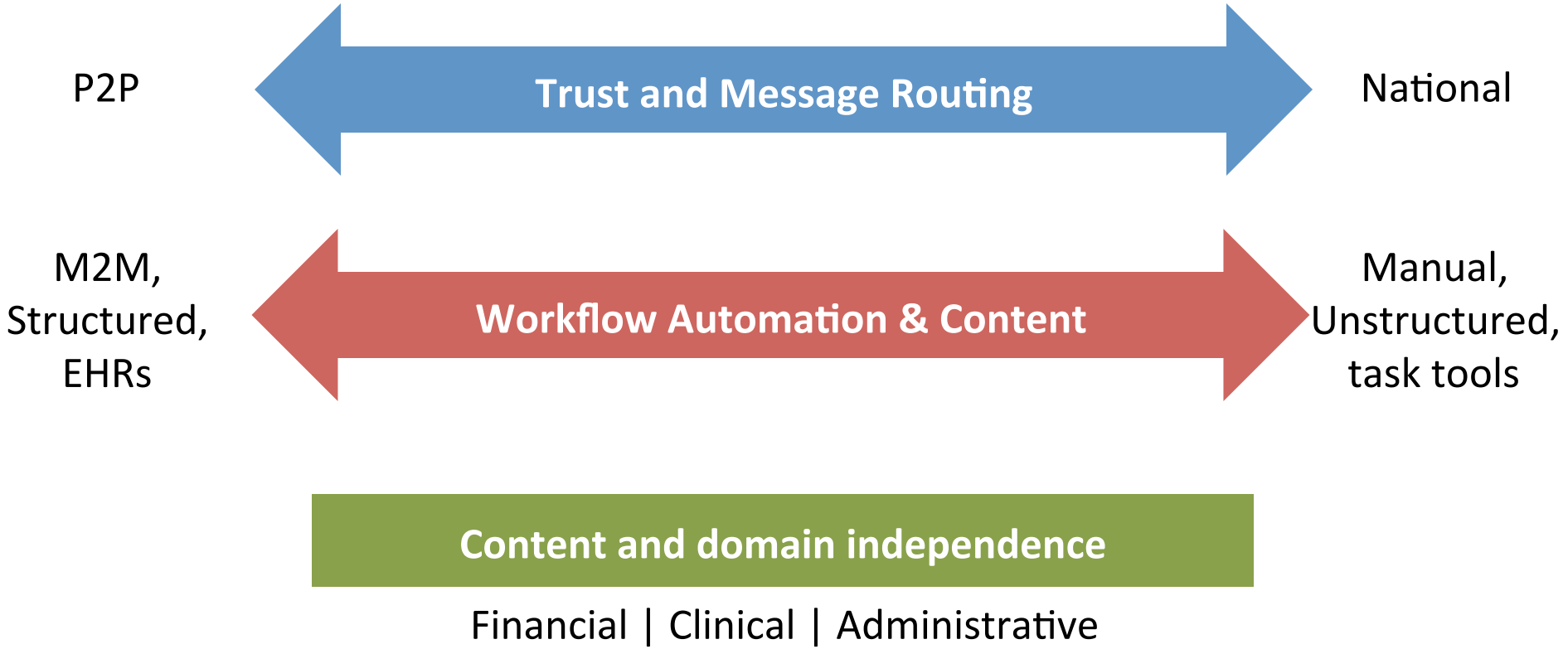
Direct in HealthVault Message Center



What is so special about Direct?

One-time infrastructure setup

➔ infinite loosely-coupled use cases

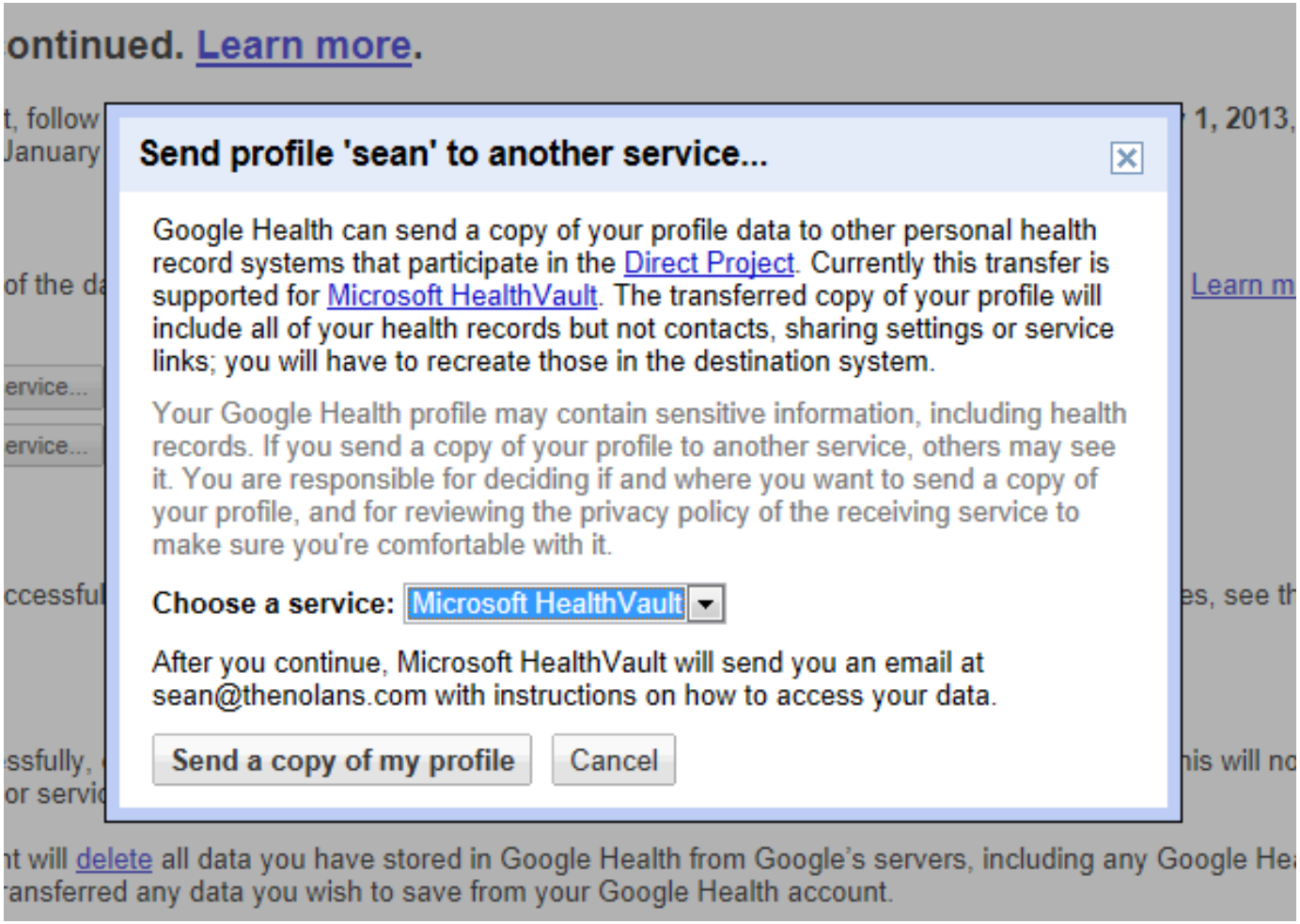


Taking IT out of Health IT

** Claudia, I am willing to license this logo ☺*

the Direct Project

Unanticipated Use Case: Google Health profile transfer



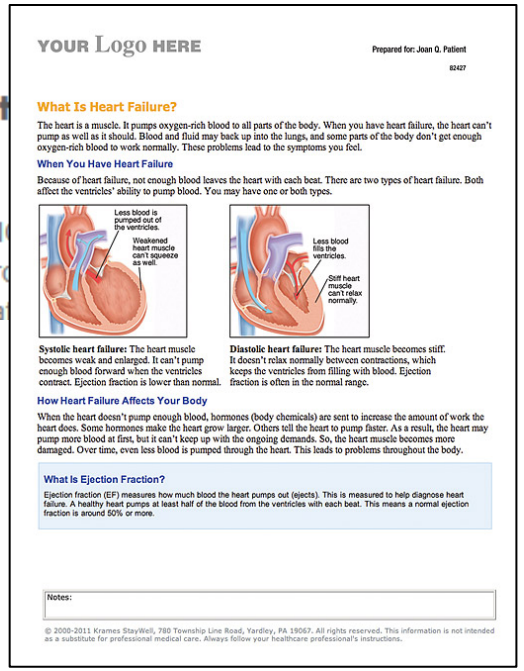
Unanticipated Use Case: Krames On-Demand

KRAMES staywell

Krames StayWell to Implement Direct Project Security Protocols in Collaboration with Microsoft HealthVault

Encrypted e-Mail Platform for Krames On-Demand will facilit National Health Information Network

Yardley, PA – July 6, 2011 – Krames StayWell has announced that it is enabling the ON award-winning patient education system, Krames On-Demand. Leveraging the Direct Pr Microsoft HealthVault, health systems will be utilizing Krames On-Demand to engage pa



YOUR Logo HERE

Prepared for: Joan Q. Patient

82427

What Is Heart Failure?

The heart is a muscle. It pumps oxygen-rich blood to all parts of the body. When you have heart failure, the heart can't pump as well as it should. Blood and fluid may back up into the lungs, and some parts of the body don't get enough oxygen-rich blood to work normally. These problems lead to the symptoms you feel.

When You Have Heart Failure

Because of heart failure, not enough blood leaves the heart with each beat. There are two types of heart failure. Both affect the ventricles' ability to pump blood. You may have one or both types.

Less blood is pumped out of the ventricles.

Weakened heart muscle can't squeeze as well.

Less blood fills the ventricles.

Stiff heart muscle can't relax normally.

Systolic heart failure: The heart muscle becomes weak and enlarged. It can't pump enough blood forward when the ventricles contract. Ejection fraction is lower than normal.

Diastolic heart failure: The heart muscle becomes stiff. It doesn't relax normally between contractions, which keeps the ventricles from filling with blood. Ejection fraction is often in the normal range.

How Heart Failure Affects Your Body

When the heart doesn't pump enough blood, hormones (body chemicals) are sent to increase the amount of work the heart does. Some hormones make the heart grow larger. Others tell the heart to pump faster. As a result, the heart may pump more blood at first, but it can't keep up with the ongoing demands. So, the heart muscle becomes more damaged. Over time, even less blood is pumped through the heart. This leads to problems throughout the body.

What Is Ejection Fraction?

Ejection fraction (EF) measures how much blood the heart pumps out (ejects). This is measured to help diagnose heart failure. A healthy heart pumps at least half of the blood from the ventricles with each beat. This means a normal ejection fraction is around 50% or more.

Notes:

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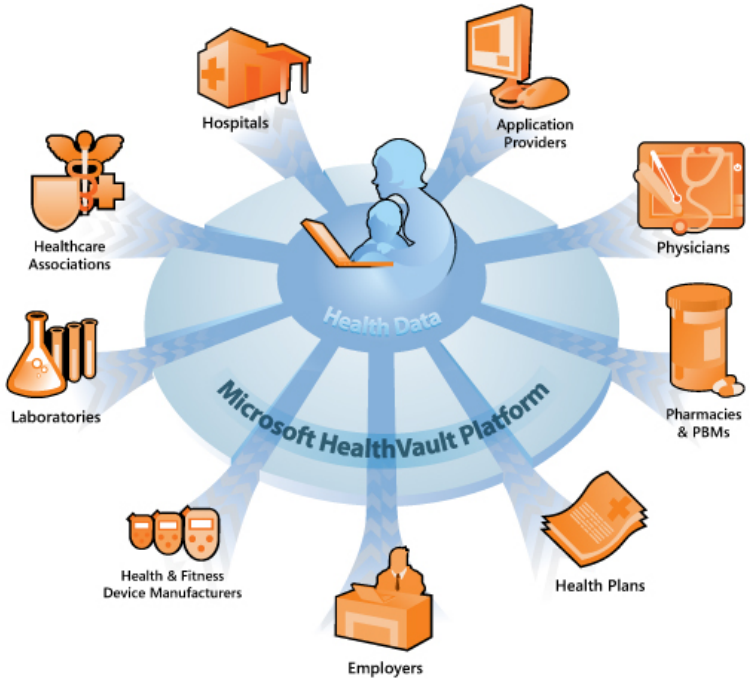
Why do I care?
Every connection gets us closer to…

- Patient-mediated exchange
- Life-integrated care
- Better emergency care
- Guardian angels
- Citizen-participatory research
- etc…



Direct is the cross-region, cross-service, cross-platform, cross-vendor solution that can get us to critical mass. Woo hoo!