

DirectTrust Overview

Prepared for the Texas Interoperability Symposium September 15, 2023

Agenda

Our Goal:

"...develop, promote, and, as necessary, help enforce the rules and best practices necessary to maintain privacy, security, and trust for stakeholders across and beyond healthcare."

"...committed to fostering widespread public confidence in the interoperable exchange of health information while promoting quality service, innovation, cooperation, and open competition in healthcare."

Background on DirectTrust

State of the Network

Use Cases - What's Working Now

What Challenges Remain - Barriers

Clearing the Barriers

What Does the Future Hold?

What You Can Do

What DirectTrust Does

Four Focus Areas



Membership

Gathering health constituents in community to develop policy and best practices, share knowledge, and advance industry efforts



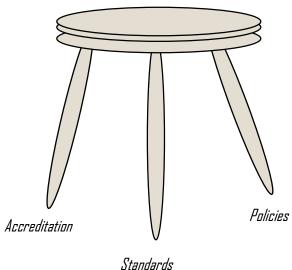
Standards

Developing conformity practices for disparate organizations to trust, communicate, and exchange with each other



Accreditation

Verifying and certifying conformance with established policies and criteria through EHNAC (Electronic Healthcare **Network Accreditation** Commission)







Trust Services

Supporting industry through trust frameworks, promoting identity proofing/credentials, network facilitation, Directory services, and certificate issuance

Why is DirectTrust focused on instilling trust in exchange?

Confidence in identity and certification leads to trusted exchange



Health

Our
overarching
goal is to
improve health
in our
communities



Care

Improving the care experience can lead to better health, and therefore life experience



Enriched by Interop

The care experience is enriched by interoperability



Ease of Info

Interoperability relies upon standards-based exchange and the tools that instantiate these standards to allow the flow of information with ease



Trust

The flow of information requires trust



Confidence in Identity

Trust requires stakeholders to have confidence in identity of those involved in exchange



Verification and Accreditation

Policy compliance and identity are assured through trustworthy accreditation and platformagnostic standards



Governance and Accountabilit

Accountability
Governance of
accreditation
and exchange
is overseen by
an accountable
community of
diverse
stakeholders



Health Insurance Portability and Accountability Act

> 1993-2000

2000 -2005

2010

2005-

ONC Interoperability

2011-2012

2014 2016

DirectTrust - Instilling Trust in Exchange

2020

landmark:

Event Notifications

Consensus Body;

Direct Standard™ is

ANSI approved;

SAFE Identity

acquired

250,843,567

2019

2021

2022

2023

Officially merge

with EHNAC:

Surpass four

billion messages

exchanged

1993: Workgroup for Electronic Data Exchanged

Stampsup AFEHCT paged an асферентерия портина предправ

Develops Direct 1995 First Acoreditation

201 9962EANA Clincorporation 012-20

HIPAA Signed into Law S MU 2 Rule DirectTrust is incorporated; Cooperative Agreement; **EHNAC Partnership**

In History: 2009...

and 1993

Founder Dr. David Kibbe departs; Scott Stuewe begins TEFCA 2; ANSI Accreditation:

EHNAC History

One billion messages exchanged landmark

2021

2022

2023

16-2017

entury Cures;

DirectTrust takes

control of HISP

accreditation program;

TEFCA 1

300,000,000

250.000.000

200,000,000

150.000.000

100,000,000

50,000,000

2018-2019

13.231.088

2015

1,904,064

2014

2020

DirectTrust owns and operates all three accreditation programs; Post-acute adoption

continues: Pandemic response

50,475 40,120,014 23,050,663 2016 2017 2018

Launch IX4HS and **PEHRLS Consensus**

2020

Bodies: Surpass three billion messages exchanged

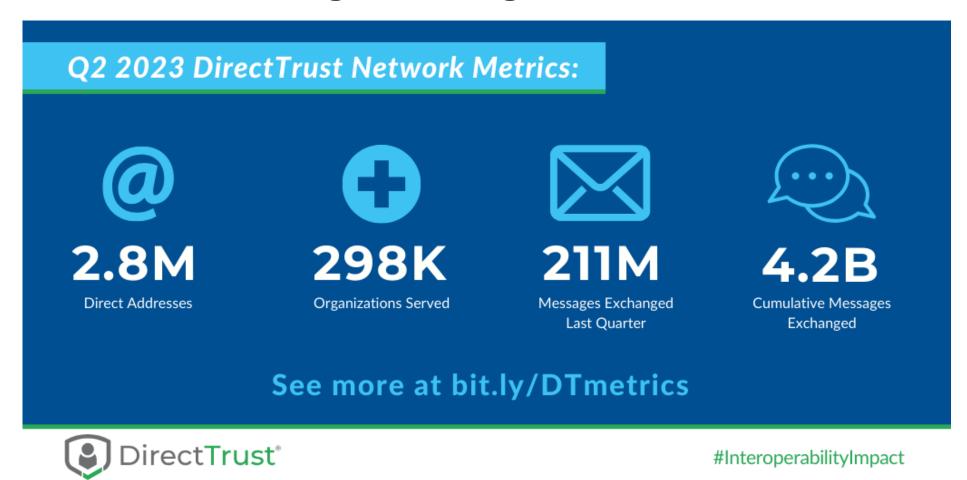
260,664,732 Annou e me with HNA 211,840,930 141,794,3

2022

2021

State of the **DirectTrust** Union

More than four billion messages exchanged



Direct Secure Messaging over the DirectTrust Network

Exchange flows directly from and to known trusted recipients over the internet

Understanding Direct

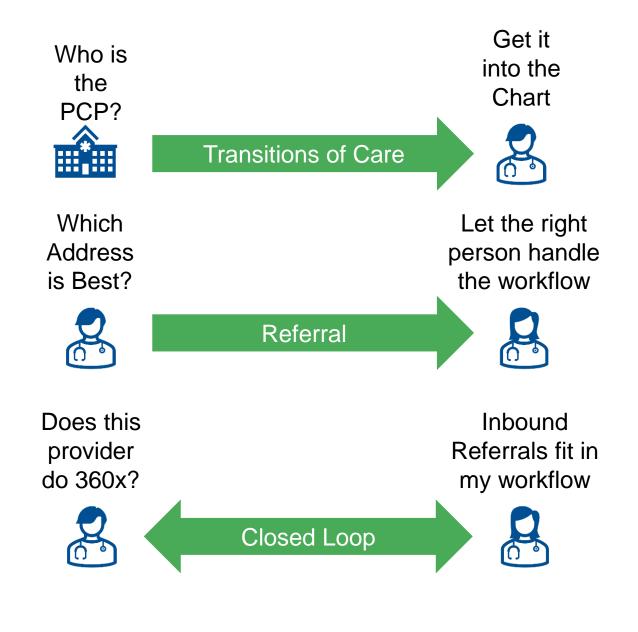
- Direct provides a trusted, secure, and widely deployed mechanism for the exchange of health information that's as easy as email or fax.
- Based on the ANSI approved Direct Standard™
- Simple, secure, scalable
- Payload agnostic structured and non-structured data
- Authenticated, encrypted
- In practice: Embedded in EHR

The **DirectTrust** Network in Use

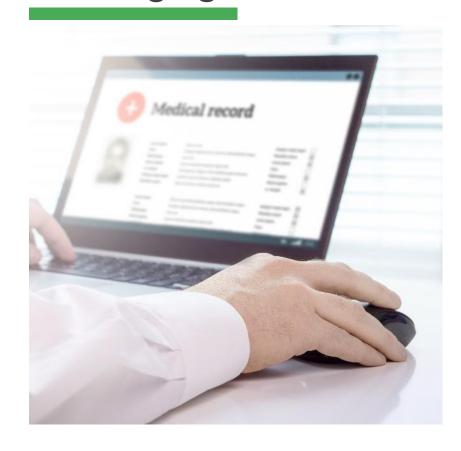
- Primary use case Transitions of Care/Referrals/Consults
 - Provider to Provider
 - Curated
- Public Health Reporting
- Notifications Delivery
- LTPAC
- EMS Transfer to Hospital
- HIE Reporting
- So many more use cases!

Transitions of Care, Referrals and Closed Loop Referrals

- In the early days of Direct, TOCs were triggered automatically and an appropriate address wasn't known - frequently resulting in mis-directed messages
- Our new directory updates can show senders which addresses are preferred by receivers for a given workflow
- New guidance shows new approaches for organization level directory entries
 - · Tie them to workflows
 - Leave out all provider demographics
- We look to have 360x utilize our directory to determine if a receiving address supports the standard



Value of Direct Secure Messaging - Referrals



In three different studies we found the following: A paper referral coming into an organization usually follows this process:

 Sending MD see's patient in consult (day 1) and then creates an order which follows the normal system in an office taking 1-2 business days to facilitate (MA prints paper, does their normal stuff then faxes it)

• Then the receiving organization has a system to receive the fax, sort it and put it in a queue to work equaling 1 - 2 days.

THEN if there is missing information (supporting clinical documentation) add a day to 2 days....

By using Direct, we easily shaved off 4-6 days AND hundreds of keystrokes."

"We went from 10 minutes on an intake of a fax for a referral and didn't even touch medications, to less than five minutes AND the provider gets the complete medication list. Instead of wasting valuable time during the patient appointment to manually enter in medication information, now the provider just has to click a button to verify and reconcile meds. Less time, and more complete information!"

Notifications – Great, Good, Bad and Ugly



ANSI/DS 2020-03-100-2022 - Event Notifications via the Direct Standard™
Release Version 1.0 − US Realm
May 11, 2022

Sponsored by: DS2020_03 Event Notifications via Direct Consensus Body

Approved by ANSI: May 13, 2022



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Hospital sends compliant messages



Event Notifications Via the Direct Standard®



Hospital sends to an intermediary

Receivers can route to appropriate individual and workflow



ADT Feed

Via the Direct







Proprietary Notifications with metadata







Proprietary "Plain Text"
Notifications



Thinking Outside the **EHR Box**

5:30/1966 (501):555-6655

9/29/2957

From the Department of health or the HIE or RDU Periodic Reports

SHARE

Social care connections

Sensitive Data Birth and Death Notices

Child protective services

Practice

Manager's Web

Inbox (outside

the EHR)

Courts **Schools**

Municipalities

24-Hour Daily Hospitalization Report Example



SHARE Hospitalization Report



Through direct secure messaging, we can notify you when patients are hospitalized or visit an emergency department.

John Taylor

Where Does Policy Support Direct?

Promoting Interoperability

Certified EHR Technology (CEHRT) 2014 and forward

Requirement to publish digital endpoint (Direct address) in NPPES

ADT Notifications

Directory Improvement Initiative (DII)

Introduce High Level Overview of the Directory Work to the community

Era 1: Improve Directory Confidence and Accuracy

Develop Administrative Tools and new data validation capabilities

Era 2: Increase Directory Accessibility and Use

Develop FHIR-based Directory Structure and FHIR API Access Era 3: Enhance Directory Updatability and Sustainability

Develop Directory Update option via FHIR API Access

Work Stream 1: Community Change Management

Work Steam 2: Validation

Work Steam 3: FHIR-Based Access

Work Steam 4: FHIR-Based Updates

Phase 1A: New Validation Engine Phase 1B: New FHIR API Query Access and Sync Engine Phase 2: New FHIR API For Updates and Reverse Sync

Reference Implementation for Directory Access
August Debut

Reference Implementation for Directory Update
December Debut

3 Goals

4 Work Streams

2 Technical Phases

2 Reference Implementations

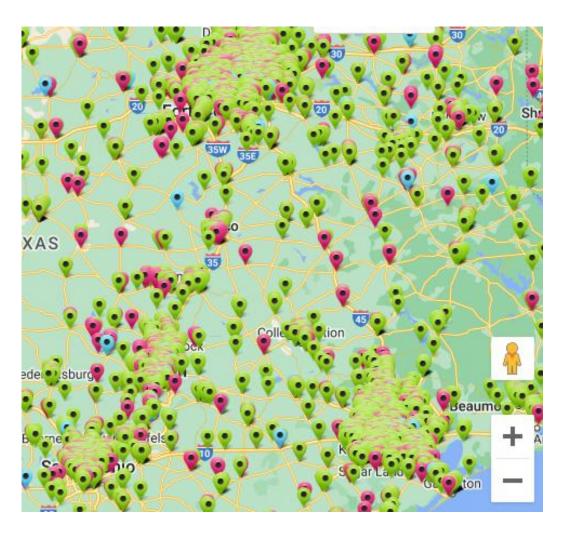
Problems to Address

Challenge: How do we improve access and quality, maintain currency and not increase costs?

- Data Quality and Relevance
 - Contributed data needs to validated against external sources of truth
 - Continued focus on data governance required communicate best practices first, tighten up rules
 - Provide new fields that allow for direct addresses to be differentiated in terms of purpose
- Participation
 - HISP participation has been voluntary
 - Organizational Participation has major gaps
- Demand and Frustration
 - The Promoting Interoperability Measures have provider organizations scrambling to find the addresses of partners
 - Growing demand for access to the directory outside the system to facilitate measurement and maximize
 value this has been blocked by our policies in part

DirectTrust Directory Policy Updates

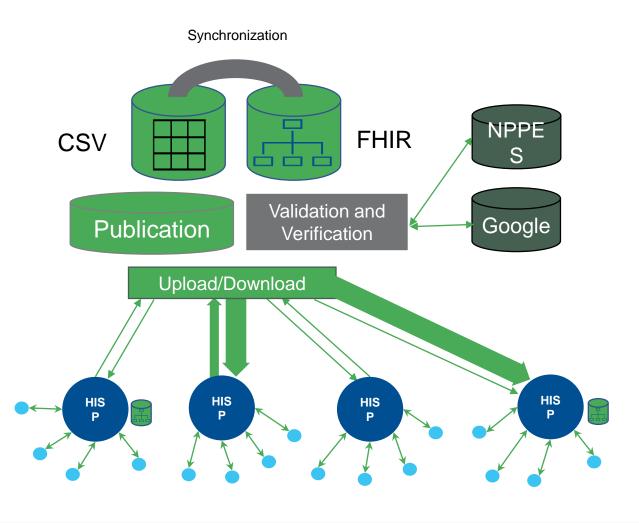
Addressing one of the top five barriers to successful interoperability



- All HISPs are now required to participate
- All organizations are now required to have a presence in the Directory
- HISPs must upload and download at least every 72 hours and make updates immediately available to customers
- DirectTrust will be able to offer a look up by NPI on our website and collaborate with CMS
- HISP customers can now use the Directory for other use cases besides Direct Secure Messaging

DirectTrust Directory Architecture

New Directory model can provide a more reliable tool for the ecosystem

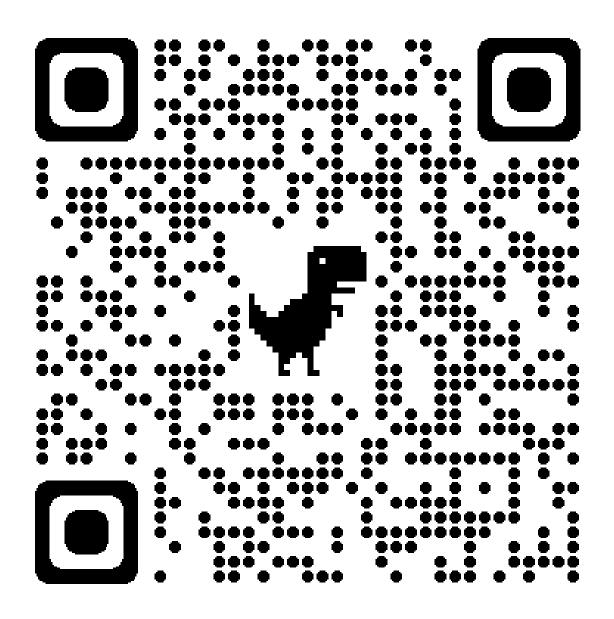


- Each Record is validated against external sources
 - NPPES for provider demographics and NPI validity
 - Google for ensuring the validity of addresses
- Two Data Models supported
 - CSV model based upon the IHE HPD Profile
 - FHIR model based upon new HL7 NDH Standard
 - Either or both model can be downloaded by the HISP
- New model manages differences and "inactivates" rather than "deletes" records
- HISPs can upload and download in a FHIR format or a CSV format, with either full or incremental contributions and subscriptions

What can you do to support Direct?

We need evangelists!

- See THSA's Nine Recommendations for Direct: bit.ly/DirectTHSANine
- See the benefits of Direct: <u>bit.ly/DirectAtAGlance</u>
- Talk about why Direct is replacing fax: bit.ly/DTFax2020
- Find additional success with Direct: bit.ly/DirectStepsForSuccess
- Explain Direct: <u>bit.ly/GetToKnowDirect</u>
- Access our resources: <u>DirectTrust.org/Resources</u>
- Sign up for our newsletter: <u>bit.ly/NewsDT</u>
- Learn about success with interop: bit.ly/InteropHero
- Share your success!





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