EHR | HIE Interoperability WORKGROUP

Provider Directory Specification Overview

ONC PD Workshop

April 2016

MOU-based Membership of States & Vendors
[States represent over 52% of the US Pop.]

STATES		EHR VENDORS		HIE/HISP VENDORS	
Arkansas	Nebraska	Alere Wellogic	Epic	1MEDiX	Med3000
California	New Jersey	Allscripts	GE	Alere Wellogic	MedAllies
Florida	New York	CareVoyant	Greenway	ApeniMED	MedFx
Georgia	Oregon	Cerner	McKesson	dbMotion	Medicity
Illinois	Rhode Island	CureMD	MDClick	Data Motion	Mirth
Kansas	Utah	Data Strategies	MTBC	GE	Misys OS Solutions
Kentucky	Vermont	DeFran Systems	NextGen	GSI Health	NextGate
Maryland	Virginia	Dr. First	Nortec Software	Harris	OmniMD
Michigan	West Virginia	eClinical Works	Prosocial Applications	HealthUnity	OmniXchange
Missouri		eMDs	Siemens	iPhysicianHub	Optum
		EMR Direct	TenEleven Group	ICA	Orion Health
			Vitera Health	InterSystems	RelayHealth

Key Components of Specifications

Statewide Consumable Continuity of Care Document

CCD based on C32/C83 → C-CDA v1.1

- Tighter data element requirements based on C32 semantics and syntax. (Additional R/R2 items from C154 per states and Beacons as they relate to C32 based documents).
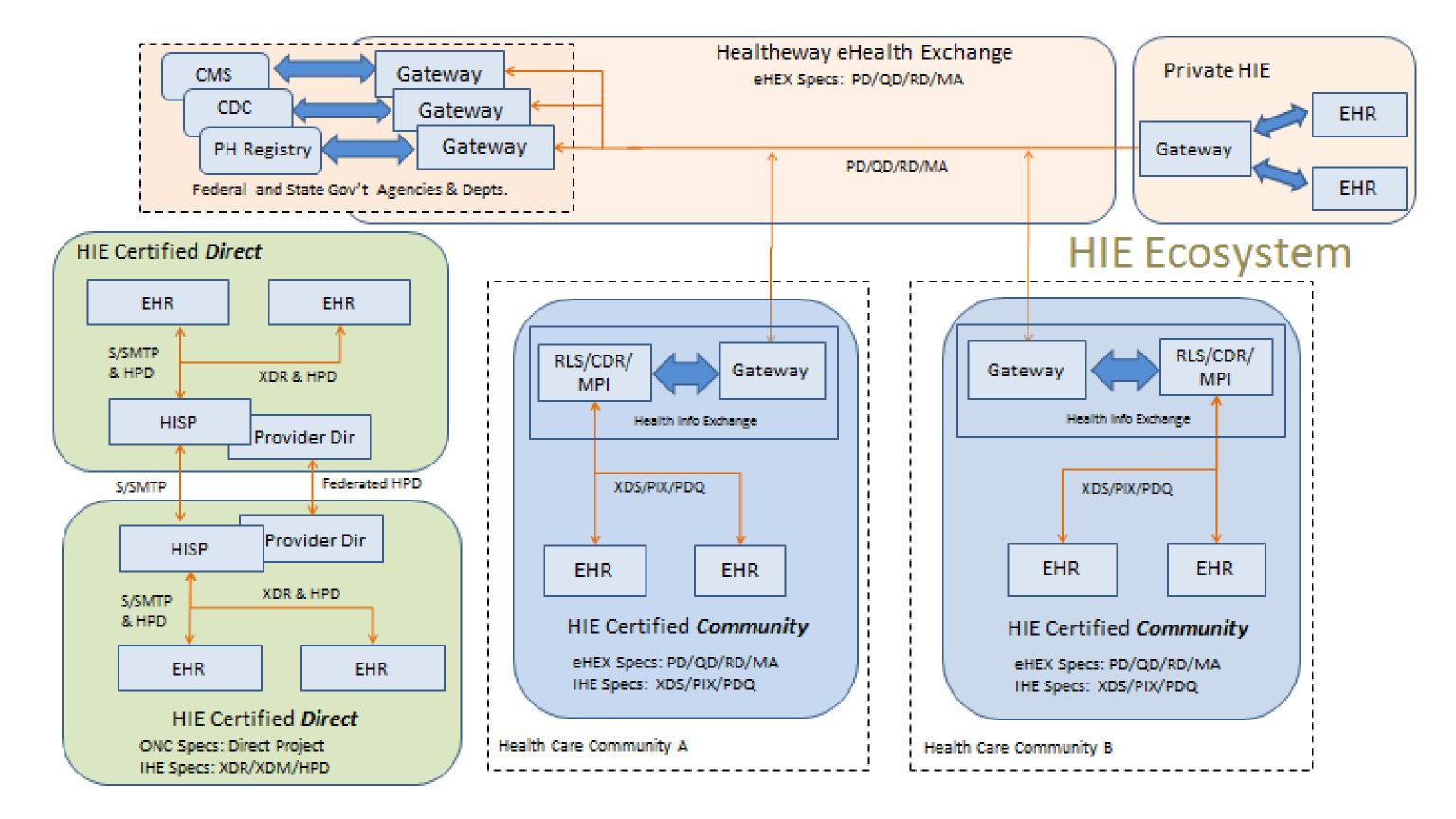
Send and Receive Patient Record Exchange (Push)

NwHIN Direct

- Main expansion beyond Direct is locating the provider through querying Provider Directory and finding digital cert per S&I **(HPD +)**
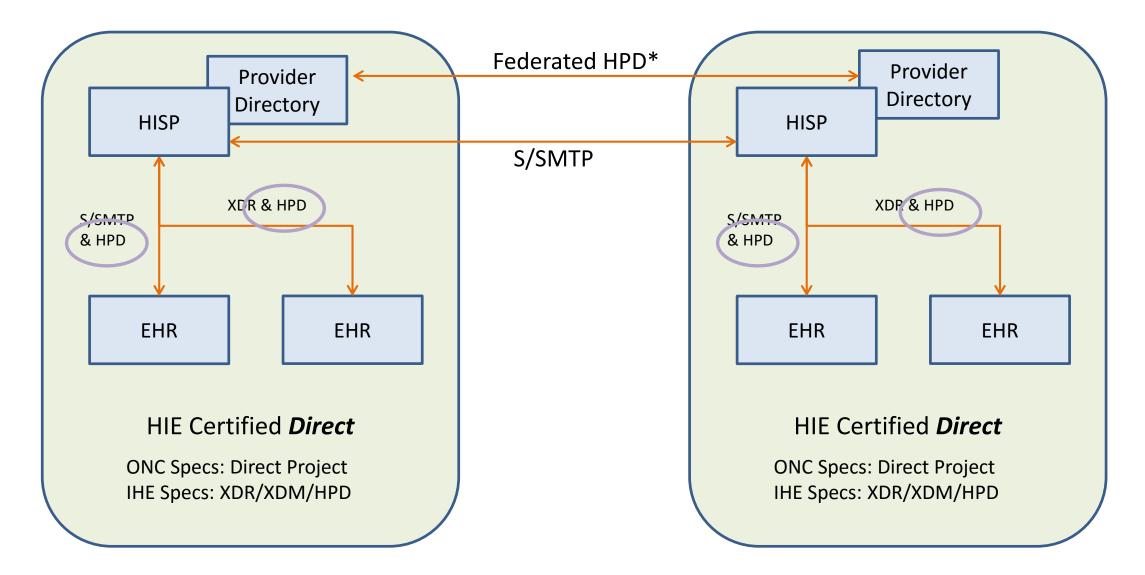
Statewide Patient Data Inquiry Service (Pull)

- **Register and Query patient Identity, Provide and Register/Query and Retrieve Patient Documents**
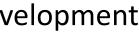
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Healtheway eHealth Exchange

eHEX Specs: PD/QD/RD/MA

Private HIE

CMS

CDC

PH Registry

Gateway

Gateway

Gateway

EHR

Gateway

EHR

Federal and State Gov't Agencies & Depts.

PD/QD/RD/MA

HIE Ecosystem

HIE Certified *Direct*

EHR

EHR

S/SMTP & HPD

XDR & HPD

HISP

Provider Dir

S/SMTP

Federated HPD

HISP

Provider Dir

S/SMTP & HPD

XDR & HPD

EHR

EHR

HIE Certified *Direct*

ONC Specs: Direct Project
IHE Specs: XDR/XDM/HPD

RLS/CDR/MPI

Gateway

Health Info Exchange

XDS/PIX/PDQ

EHR

EHR

HIE Certified *Community*

eHEX Specs: PD/QD/RD/MA
IHE Specs: XDS/PIX/PDQ

Health Care Community A

Gateway

RLS/CDR/MPI

Health Info Exchange

XDS/PIX/PDQ

EHR

EHR

HIE Certified *Community*

eHEX Specs: PD/QD/RD/MA
IHE Specs: XDS/PIX/PDQ

Health Care Community B

Direct Functionality

Federated HPD*

Provider Directory

HISP

S/SMTP

S/SMTP & HPD

XDR & HPD

EHR

EHR

HIE Certified *Direct*

ONC Specs: Direct Project
IHE Specs: XDR/XDM/HPD

* Federated HPD test tooling to be completed in collaboration with ONC/SITE development

IWG Provider Directory Specification Considerations

- PD Solutions Due Diligence for Statewide Send/Receive Specification
  - Gap in ONC CEHRT program for Direct…recognized by ONC as well
  - Deemed CRITICAL for Direct deployment in communities
  - Multiple solutions being deployed in industry
- ONC Provider Directory Modspec Team Publishes an "HPD+" spec
  - USA-specific revisions to IHE International HPD profile ("CP 601")
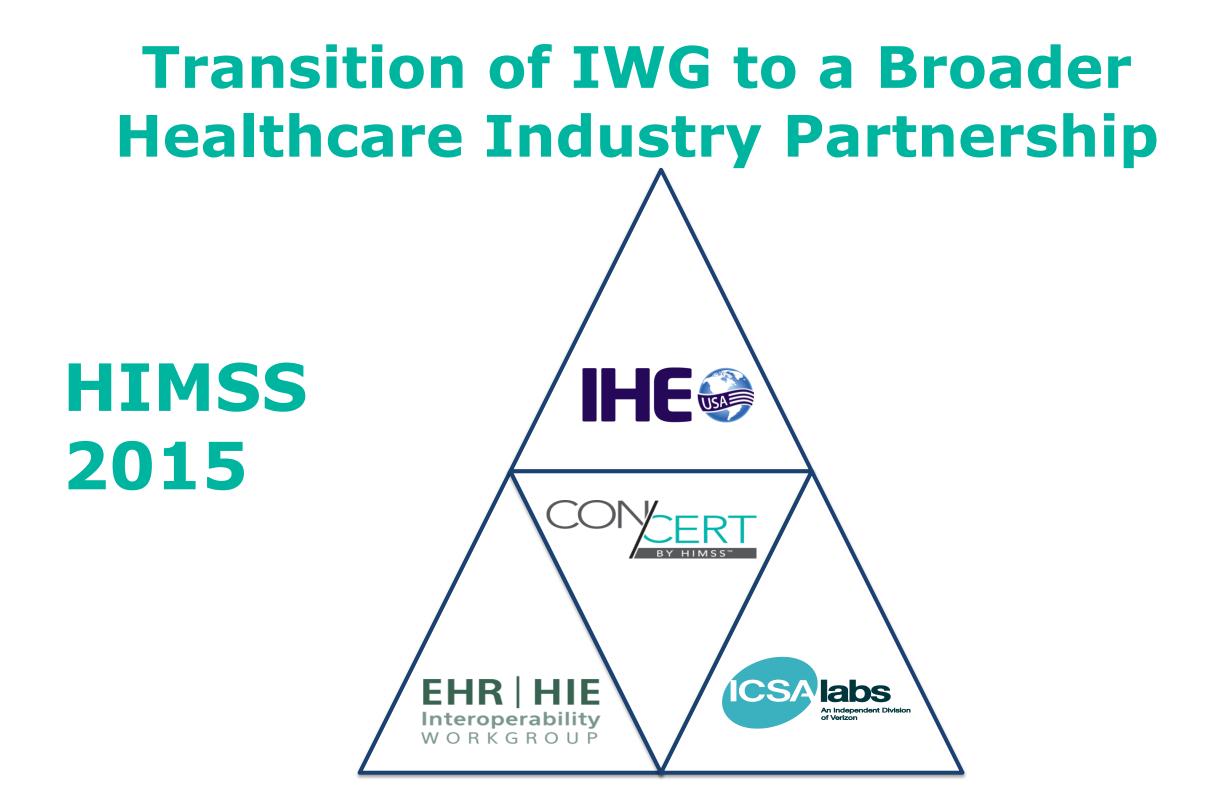- IWG Members Prefer HPD+ to Base HPD Specification

→ IWG Publishes HPD Appendix to Send/Receive Spec based on HPD+

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IWG Provider Directory Specification Considerations

- 2013 - ONC Awards Grant to IWG to **Explore** Models for Querying Provider Directories to support EHR-HISP and HISP-to-HISP Exchange
  - ○ *4 Pilot Communities Monitored [across 4 States using 10 Vendors]*
  - ○ *Confirmed Diversity of Solutions*
  - ○ *Recommendation - Develop a Singular Federated PD Specification*

- IWG and ONC PD ModSpec Team Facilitate Open Discussion for Federated PD Solution
  - ○ *ONC HPD Updates for Federation Accepted by IHE ITI*
  - ○ *Result: Q4 2014: New Federated Option in IHE HPD*

- HPD Appendix Updated to Reference Final IHE HPD Profile
  - ○ *Interoperability Testing Tool (ITT) to be updated [informed by Federated HPD test harness from ESAC…ONC SITE resource]*

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Transition of IWG to a Broader Healthcare Industry Partnership

HIMSS 2015

Three Distinct Certification Programs

Certification Marks signify compliance and proof that a product has all of the requirements to be interoperable with other certified ConCert by HIMSS products.

for EHR systems providing a simplified way for providers to send secure health information directly to trusted recipients	for HIE systems that enable clinicians to share health information within and across care delivery communities	for Health Information Services Provider systems to send secure health information directly to trusted recipients, including patients