National/California Provider Directory Efforts

Rim Cothren



Two initiatives...

ONC /	FHA
H	lcDir

One concentrating on the data elements and exchange standards to meet many use cases

CA Provider Directory Collaborative One concentrating on the business processes to validate provider data to support consumer-facing directories



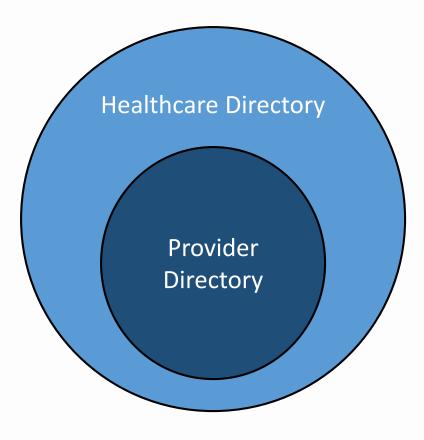
Healthcare Directory (HcDir)

- Continuation of the work from a workshop organized by ONC and FHA on April 5th and 6th of 2016
- What ONC/FHA took away from that meeting:
 - Strong interest in the federal government providing a validated core provider data set
 - Many use cases all important for interoperability and care delivery
 - Need to prioritized and define data / validation / exchange requirements
 - Focus is now on use of FHIR

See <u>https://oncprojectracking.healthit.gov/wiki/display/TechLabSC/Provider+Directory+Workshop</u>

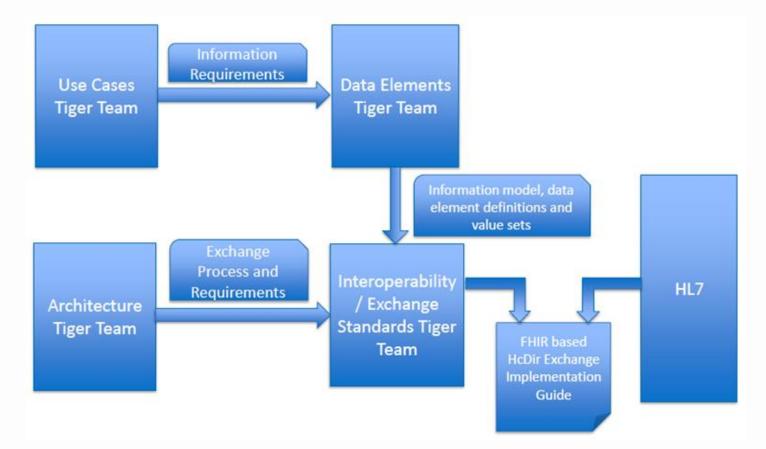


Larger than a "Provider Directory"





Moving Parts



See https://oncprojectracking.healthit.gov/wiki/display/TechLabSC/HcDir+Tiger+Teams



Use Cases

- Basic Information Exchange
 - A1. Enable electronic exchange (e.g., IHE endpoints, FHIR server URLs, Direct addresses)
 - A2. Find an individual and/or organization
- Patient / Payer Focused
 - B1. Find provider accessibility information (specialty, office hours, languages spoken, taking patients)
 - B2. Relationship between provider and insurance plan (insurance accepted) or plan and provider (network)
 - B3. Plan selection and enrollment
 - B4. Claims management (adjudication, prior authorization, payment)



Use Cases

- Care Delivery / Value Based Care
 - C1. Provider relationship with a patient (e.g., for alerts)
 - C2. Provider relationship with other providers in context of a patient (e.g., care team communications)
- Others
 - D1. Provider credentialing
 - D2. Quality or regulatory reporting (e.g., aggregate data, plan networks)
 - D3. Detection of fraud; inappropriate approval of services and/or payment for services



"Priority" Use Cases

- A1. Enable electronic exchange
- A2. Find an individual and/or organization
- B1. Find provider accessibility information
- B2. Relationship between provider and insurance plan or plan and provider
- B3. Plan selection and enrollment
- C1. Provider relationship with a patient
- C2. Provider relationship with other providers in context of a patient
- D1. Provider credentialing

See https://oncprojectracking.healthit.gov/wiki/display/TechLabSC/Use+Cases+Tiger+Team



Data Elements Tasks

- Review reference standards and document relevant portions S&I, IHE HPD, ASC X12, FHIR <
- Draft recommended data elements
 Based on needs of use cases
 Include applicable relationships/constraints
 Identify/propose value sets
- 3. Describe validation processes
- 4. Describe restrictions



Data Elements

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	1		Cardi	nality					
	2	Information Requirement [1]	Ind	Org		A1	A2	B1	B2
	3	Demographics							
·	4	Individual type	1*			Yes	Yes	Yes	Yes
•	5	Organization type [6]		1*		Yes	Yes	Yes	Yes
	6	Name	1	1		Yes	Yes	Yes	Yes
	7	Description		01					Yes
_	8	Alternate name (a.k.a., d.b.a., alias, historical)	0	*		Yes	Yes	Yes	Yes
•	9	Name type	1	1		Yes			Yes
·	10	Time period	1	1			Yes	Yes	
·	11	Primary Address [2]	-	1		Yes			
	12	Alternate address (including historical) [2]	0	.*		Yes	Yes	Yes	Yes
•	13	Address type	1	1		Yes	Yes	Yes	Yes
•	14	Time period	1	1			Yes	Yes	Yes
•]	15	Gender	11			Yes	Yes	Yes	Yes
	16	DOB/Age	11			Yes	Yes	Yes	Yes
	17	Picture	01					Yes	
	18								
	19	Identification							
	20	Global unique identifier [3] [7]	11	11			Imp	Imp	Yes
	21	Identifier (NPI, etc.)	0*	0*		Yes	Yes	Yes	Yes
÷	22	Туре	11	11		Imp	Yes	Yes	Yes
·	23	Time period	11	11			Yes	Yes	Yes
	24	License information (state, DEA, etc.)	0*	0*		Yes	Imp	Imp	Imp
·	25	Туре	11	11		Imp	Imp	Imp	Imp
•	26	Time period	11	11			Imp	Imp	Imp
	27	Tax ID	01	11		Yes			
	28								
	29	Contact information	1	.*					
	30	Telephone number	1	.*		Yes	Yes	Yes	Yes
•	31	Via (reception, etc.)	0	1		Yes			
	32	Type/purpose [4]	1	1		Imp	Yes	Yes	Yes



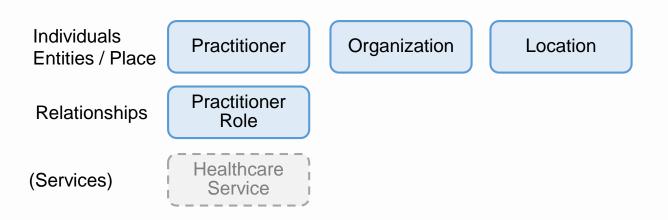
What we learned...

- 1. There were more priority use cases
- 2. There were many missing data elements
- 3. There were many missing relationships
- 4. Code sets were woefully inadequate



FHIR Resources (think "groups of elements")

What most people think when you say "Provider Directory"





New Concepts

New objects: products

New relationships: between organizations, members of networks

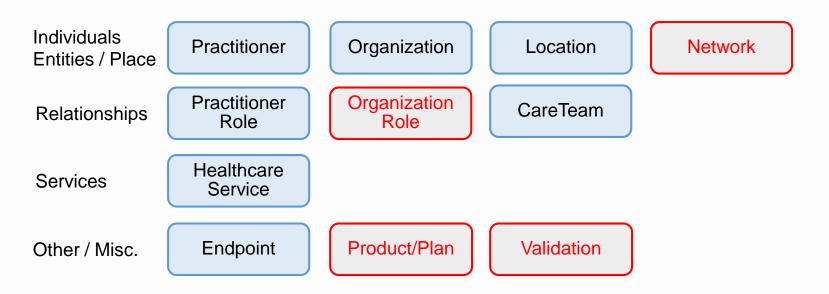
New processes: validation

New participants: plans (insurers)



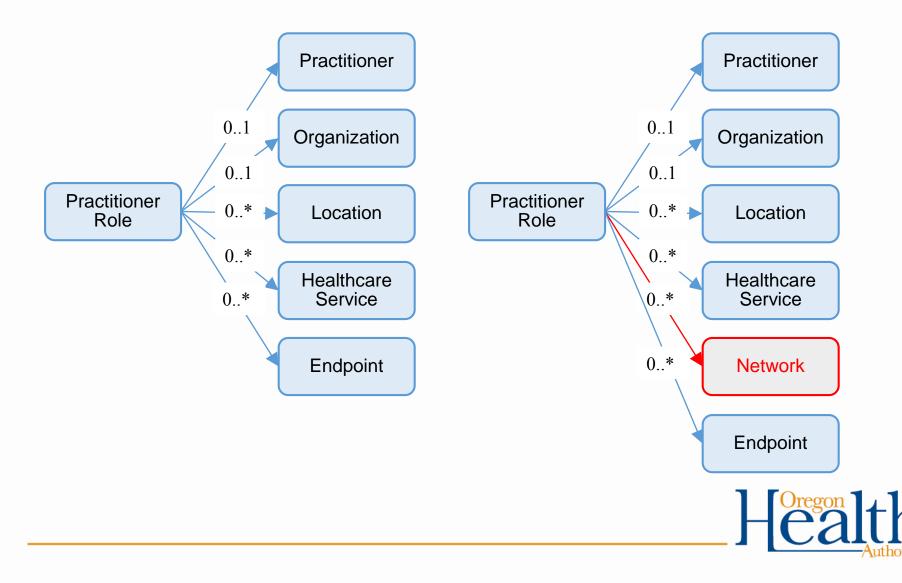
FHIR Resources (think "groups of elements")

What the Healthcare Directory requires

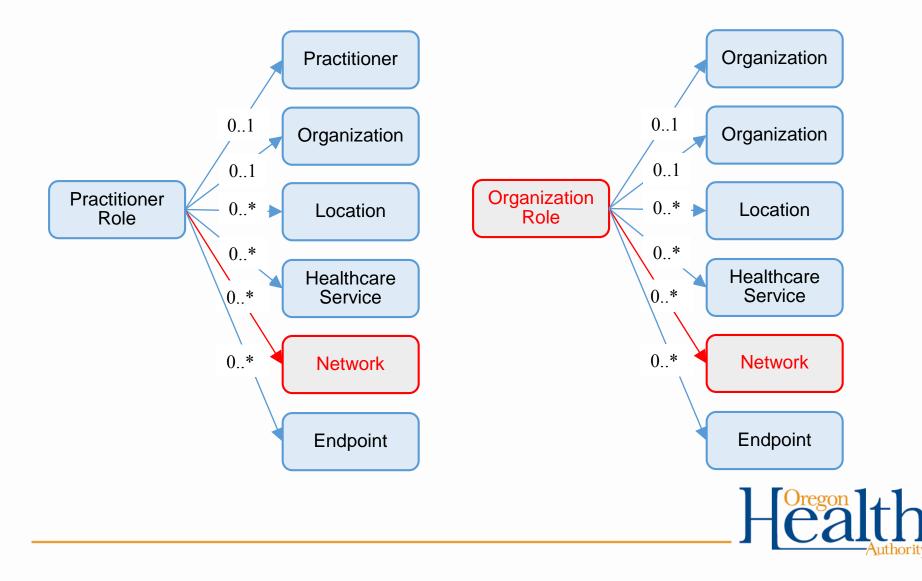




Resource Expansion



New Resources (new relationships)



New Data Elements

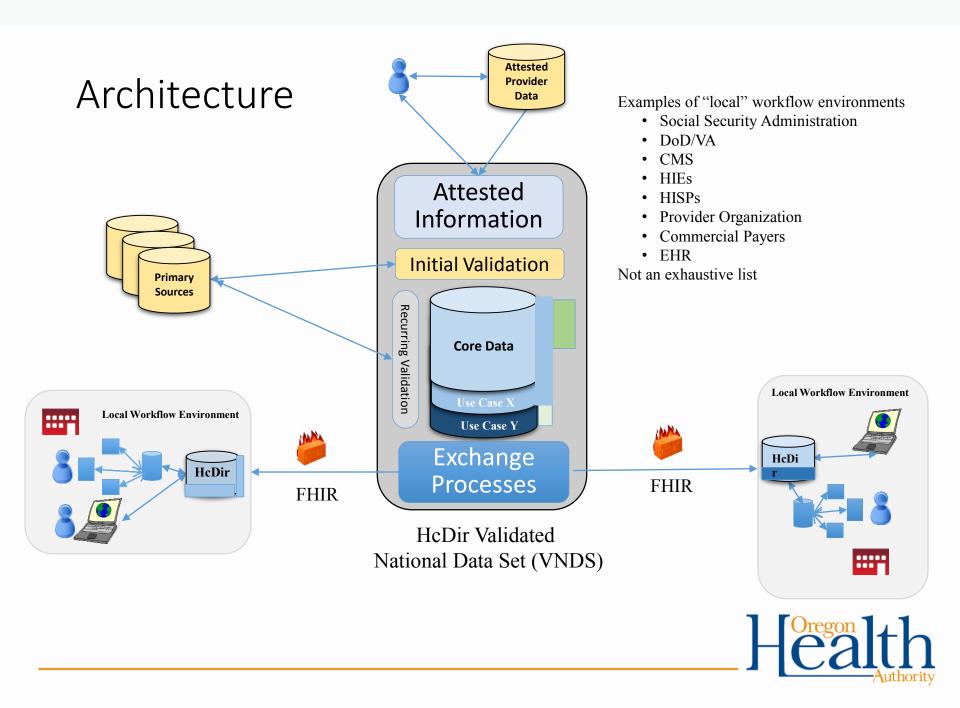
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active			boolean	Whether this practitioner's record						ok	11	ok	n/a				
name				The name(s) associated with the				vhdir-HumanName		ok	11	ok	n/a				
telecom	Σ	0*	ContactPoint	A contact detail for the practition		;)		vhdir-ContactPoint		ok	1*	ok	ok				
address			Address	Address(es) of the practitioner th			is)	vhdir-Address		ok	1*	ok	ok				
gender	Σ	01	code	male female other unknown				Ok with value set		ok	11	ok	ok				
-				AdministrativeGender (Required													
birthDate	Σ	01	date	The date on which the practitione	er was born					ok	11	ok	n/a				
photo		0*	Attachment	Image of the person						ok	01	ok	n/a				
qualification		0*	BackboneElement	Qualifications obtained by trainin	ng and certification			vhdir-qualification		ok		ok	ok	may be used for indi	viduals with n	o specific qualif	ciations
identifier		0*	Identifier	An identifier for this qualification	for the practitioner			vhdir-identifier		ok	tbd	ok	ok	constrain?			
code		11	CodeableConcept	Coded representation of the qua	lification					ok		ok	?	need to review value	e set		
				v2 table 0360, Version 2.7 (Examp	le)			value set needs mo	ore work (need	l to suppo	rt org qualifi	cations, in	dividual l	board certification, cor	nsider constrai	ning it?)	
period		01	Period	Period during which the qualifica	tion is valid					ok	11	ok	n/a				
issuer		01	Reference(Organization)	Organization that regulates and is	sues the qualification					ok	11	ok	ok	Need to create organ	nization for ea	:h	
communication		0*	CodeableConcept	A language the practitioner is abl	e to use in patient comm	nunication					00						
				Common Languages (Extensible b	out limited to All Languag	<u>tes)</u>											
Extensions																	
endpoint		0*	Reference (Endpoint	Reference to endpoint(s) unique	to the practitioner									Only included if unio	que to the indi	vidual (i.e. inde	penden
digitalCertificate			BackboneElement	Digital identity certificate										e the certificate itself			
type		11	Code	Type of digital certificate				encryption (SSL) e	ncryption (oth	er) devi	ce identity	signing	group	D Blockchain? Two typ	es of group ce	tificates?	
certificateStandard			Code	x.509v3													
Certificate		11	base64Binary	The certificate itself				Base 64 encoded (P	PEM format)								
expirationDate		11		Expiration date of the certificate													
trustFramework			CodeableConcept	The trust frameworks supported	by the certificate			DirectTrust FBCA	others?								
Restriction			BackboneElement														
Qualification			BackboneElement					Waiting on final pro	oposed data el	ements							
Accessibility			Backbone Element	Accessibility options offered by t													
Туре			CodeableConcept	Type of accessibility options offe				Cultural Competan	cy, handicap ac	cessible,	ADA complia	ant, public	transit o	of Values within the va	lue set may ha	ve more/less re	alevance
Description			String	Friendly description of accessibil													
languageSpoken			BackboneElement	A language the practitioner is abl		nunication											
language		11	CodeableConcept	Language the practitioner speaks													
				Common Languages (Extensible k	out limited to All Languag	ges)				nmon lan	guages (e.g. (creole, vie	tnamese	, tagalog, types of Chir			
proficiency		01	CodeableConcept	Level of proficiency				ILR scale, CEFR, ACT	FFL					suggested enhancen	nent, but not o	ritical	



What we learned...

- 1. FHIR isn't ready yet
- 2. Most vendors are not implementing STU3
 - Either staying with DSTU2
 - Waiting for STU4





What we learned...

People want...

- 1. Realtime queries for specific records
- 2. Batch downloads of subsections of a directory
 - "All the providers, organizations, plans in California"
 - "All the providers on a specific network"
- 3. Notification of changes
 - Subscribe / publish model



HcDir \rightarrow VHDir

FHL Validated Healthcare Directory Implementation Guide Cl Juild

Terminology Search Parameters Capability Statements Se

This is the Continuous Integration Build of the HI7 International Validated Healthcare Directory (HcDir2) FHIR Implementation Guide, based on FHIR Version 3.0.1. (will be incorrect/inconsistent at times). See the Directory of published versions of

Validated Healthcare Directory Implementation Guide

This is the Continuous Integration Build of the Validated Healthcare Directory Implementation Guide, based on FHIR Version 3.0.1. See the Directory of published versions 🗗

Introduction

General Guidance

The Validated Healthcare Directory Implementation Guide is based on FHIR Version 3.0.1 and defines the minimum conformance requirements for accessing or exposing healthcare directory data. Under the guidance of HL7 International, the Patient Administration workgroup, and the HL7 US Realm Steering Committee, the content intends to cover both international needs, along with a tightly bound set, tailored to meet the needs specific to the US Realm.

These requirements are being developed, ... Office of the National Coordinator for Health Information Technology (ONC) sponsored Data Access Framework (DAF) project. For more information on how DAF became Validated Healthcare Directory see the Validated Healthcare Directory change notes.

Validated Healthcare Directory Actors

The following actors are part of the Validated Healthcare Directory IG:

- Validated Healthcare Directory Requestor: An application that initiates a data access request to retrieve patient data. This can be thought of as the client in a client-server interaction.
- Validated Healthcare Directory Responder: A product that responds to the data access request providing patient data. This can be thought of as the server in a client-server interaction.

Validated Healthcare Directory Profiles

The list of Validated Healthcare Directory Profiles is shown below. Each profile defines the minimum mandatory elements, extensions and terminology requirements that **MUST** be present. For each profile requirements and guidance are given in a simple narrative summary. A formal hierarchical table that presents a logical view of the content in both a differential and snapshot view is also provided along with references to appropriate terminologies and examples. In addition each profile has a "Quick Start" section which is intended as an implementer friendly overview of the required search and read operations.

vhdir-org

US Core adopts the Vitals Signs Profile from FHIR Core.

Note on Searches based on a date or date range:

- · Allergies, Immunizations, Medications, Problems and Health Concerns, UDI, Smoking Status do not require a date range search since a system should return all relevant resources.
- Vital Signs, Laboratory Results, Goals, Procedures, and Assessment and Plan of Treatment include date range search requirements in the Quick Start section on the profile page.

See 2015 Edition Common Clinical Data Set for a mapping to the CCDS.

Validated Healthcare Directory Conformance Requirements

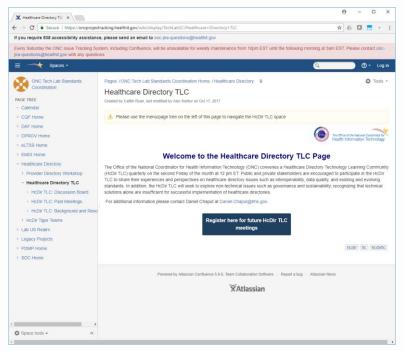
The Capability Statements Section outlines conformance requirements for the Validated Healthcare Directory Servers and Client applications, identifying the specific profiles that need to be supported, the specific RESTful operations that need to be supported, and the search parameters that need to be supported. Note: The individual Validated Healthcare Directory



Next steps... a work in progress

- Draft a update to FHIR for STU4
- Draft an implementation guide that constrains STU4

See https://oncprojectracking.healthit.gov/wiki/display/TechLabSC/Healthcare+Directory+TLC





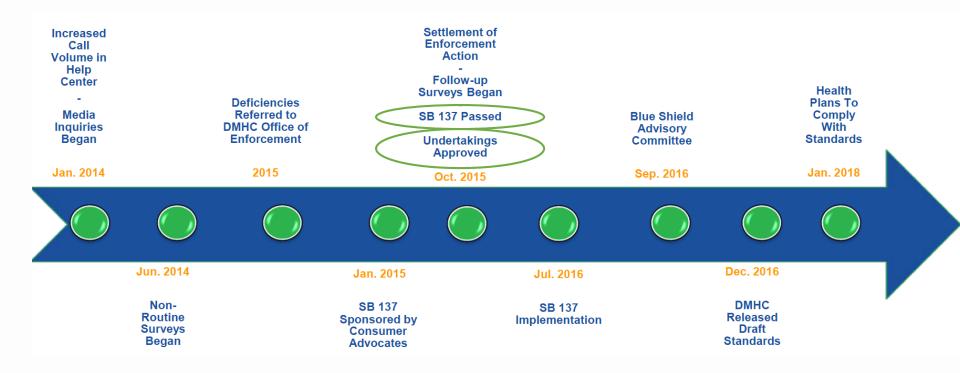
Pause for questions...



The problem...

- Post-ACA, consumers increasingly rely on provider directories to review networks when choosing a plan
- New network designs use limited network size as a tool to manage cost and improve quality
- Longstanding challenges around the accuracy of provider data are magnified by:
 - Provider confusion
 - Quickly changing data
 - Outdated systems and processes
 - Reliance on factors outside the plans control
- Complicated by complex and uncoordinated regulatory requirements:
 - Federal Requirements (Medicare, Medicaid, QHP)
 - State Requirements (SB 137, DHCS, and Covered California)

History...





Enter state legislature...

- SB 137 establishes requirements on health plans and health insurers (carriers) to:
 - make available updated consumer-facing provider directories
 - providing information about contracting providers
 - including those who are accepting new patients
 - updated quarterly in paper and weekly online
 - available on carrier websites without requiring searchers to create or access an account or commit to signing up for the plan
 - include whether the provider or staff speaks any non-English language
 - include if there is access for persons with disabilities

See https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB137



Enter state legislature...

- SB 137 calls for accuracy:
 - Plans/insurers must promptly investigate and correct any issues within 30 business days
 - Providers must inform the plan within five business days if they are not accepting new patients or become open to new patients
 - Allows the plan to remove the provider from provider directory, delay payment or reimbursement, or even terminate a provider contract



CA Provider Directory Collaborative

Goal:

The development of a <u>statewide centralized provider directory database</u> for the purpose of creating a single portal for consumers to access information, for providers to access and update their data, and for health plans to meet their legal obligations regarding provider directories and invite all California health plans, including Medi-Cal managed care plans, to participate.

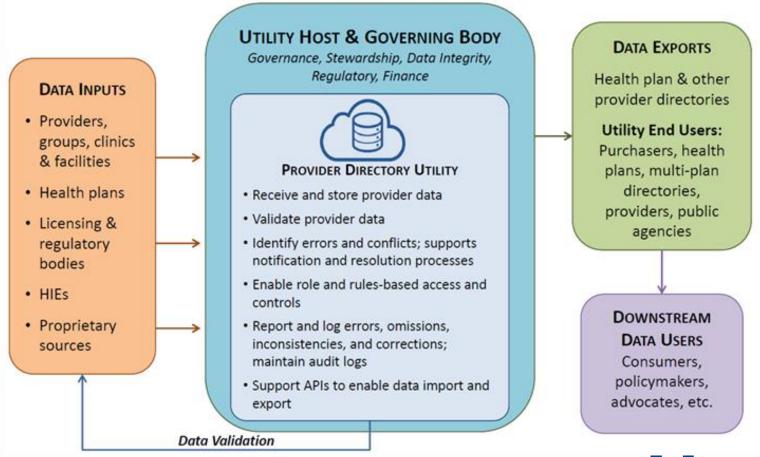
Sponsor:

"The Undertaking"

Blue Shield of California commits \$50 Million to strengthen the health care delivery system, in particular the Medi-Cal delivery system, through programs that are intended to improve infrastructure at the plan and provider level.

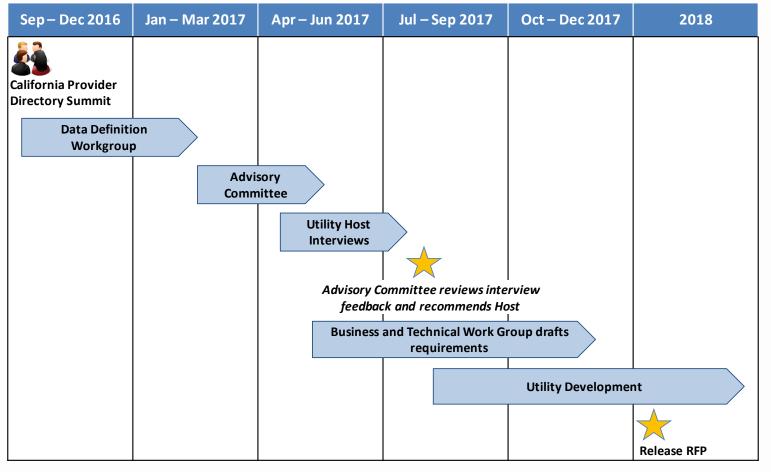


The solution...



Health

Timeline





Data Elements

SB 137 calls out specific requirements for the provider directory

Reviewed by Data Elements Workgroup to prepare recommendations to Department of Managed Health Care

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	A	В
1		SB 137 Requirements
	A f	ull service health care service plan and a specialized mental health plan shall include all of the following:
2		
3	-	The provider's name, practice location or locations and contact information
4 5	2	Type of Practioner National Provider Identifier number
5 6	4	California license number and type of license
7	<u> </u>	The area if specialty, including board certification, if any
8	6	The provider's office email address, if available
Č		The name of each affiliated provider group currently under contract with the plan through which the provider
9	7	sees enrollees
10		A listing for each of the following providers that are under contract with the plan
	1	A) For physicians and surgeons, the provider group, and admitting privileges, if any, at hospitals contracted with
11		the plan
	1	B) Nurse practitioners, physician assistants, psychologists, acupuncturists, optometrists, podiatrists,
		chiropractors, licensed clinical social workers, marriage and family therapists, professional clinical counselors,
12		qualified autism service providers, as defined in Section 1374.73, nurse midwives and dentists
		C) For federally qualified health centers or primary care clinics, the name of the federally qualified health center
13		or clinic
	8	D) For any provider described in subparagraph (A) or (B) who is employed by a federally qualified health center o
		primary care clinic, and to the extent their services may be accessed and are covered through the contract with
14		the plan, the name of the provider, and the name of the federally qualified health center or clinic
14		E) Facilities, including, but not limited to, general acute care hospitals, skilled nursing facilities, urgent care
		clinics, ambulatory surgery centers, inpatient hospice, residential care facilities and inpatient rehabilitation
15		facilities
-	1	
16		F) Pharmacies, clinical laboratories, imaging centers, and other facilities providing contracted health care service:
	9	The provider directory or directories may note that authorization or referral may be required to access some
17	9	providers
		Non-English language, if any, spoken by a healthcare provider or other medical professional as well as non-
	10	English language spoken by a qualified medical interpreter, in accordance with Section 1367.04, if any, on the
		providers staff
	11	Identification of providers who no longer accept new patients for some of all of the plans products
		The network tier to which the provider is assigned, if the provider is not in the lowest tier, as applicable. Nothing
18 19		
19	12	in this section shall be construed to require the use of network tiers other than contract and noncontracting tiers
19		
	12 13	All other information necessary to conduct a search pursuant to paragraph (2) of subdivision © Overview SB137 Requirements Specifice (+) : (1)



Data Elements

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	A SB 137 REQUIREMENT	B Data Attributo	C Origin	D Darceiptinn/Dofinitinn	G Oritical wr. Maa- critical	H Barpunrible fur Submitting Date Far SBUD, the contracted	l Benviredtär AnslicsklefOntinnel Required: Mandatury data attribute Ar Applicable: Mandatury data attribute	j Telidetian Saurco	K Wark Graup Hates	
1	HE CONFERENCE	•	•	-		entity is the primary responsible entity	if applicable to provider type Optimal: Data attribute ir not requir	·		
2	PROVIDER TYPE	Provider Type	WORKGROUP Recommendation	Classifics individual providers into one of five categories: Physician = P; Dental Providers = D; PCP extenders = PE; Vision Providers = V; all other individual provider categories = V; Classifies Facilities into one of three categories: Hospitals = H; Clineis = C; Other contracted provider facility = 0; P	Critical	Pravidor / Graup / IPA / Clinic / Facility	Required	NA		
16		Prefiz	WORKGROUP RECOMMENDATION	Partz that come before the nome such as Mr., Mr., Mr., Dr., etc.	Non-critical	Pravidor / Graup / IPA / Clinic	Optional	NA	Data attribute should be submitted as it is applicable to the provider	
20		First Name	WORKGROUP Recommendation	The first name of an individual provider contracted with the health plan to provide services to enrollees	Oritical	Provider / Group / IPA / Olinie	Required	Validate and standardize against State Licensing Board	Require "canonical" name - birth name - and validate against relevant licensing board, specifically: Given Name: First name Family Name: Last name	
28		Middle Name	WORKGROUP RECOMMENDATION	The middle name of an individual provider contracted with the health plan to provide services to enrollees	Critical	Previder/Graup/IPA/ Clinic	Required	Validate and standardize against State Licensing Board	Data attribute should be submitted as it is applicable to the provide	
35	NAME	Last Name	WORKGROUP RECOMMENDATION	The last name of an individual provider contracted with the health plan to provide services to enrollees	Critical	Pravidor/Graup/IPA/ Clinic	Required	Validate and standardize against State Licensing Board	Require "canonical" name - birth name - and validate against relevant licensing board, specifically: Given Name: First name Family Name: Last name	
45		Alternate Name	WORKGROUP RECOMMENDATION	Other names used by a provider and which may be familiar to patients	Oritical	Pravidor/Graup/IPA/ Clinic	Optional	NA	Include option to populate one or more "Display Numes" as applicable to the provider Directories should consider creating a service or tool that pre-populat data attributes from Licensing Boards which can then be used or modified as appropriate by submitting provider entity.	
51		Facility Name		The DBA or preferred name of the facility as it is known by the public/consumers (not the legal name)		Facility	Required	OSHPD (requires coordination with CDPH and ongoing crosswalk work group)	Follow up: Work with OSHPD and California Department of Public Health (CDRPH) to make DSHPD the source of runk and arbitre of facil display name, OSHPD ID, and address; other antitics, such as CPCA a the California Haspital Association, could submit updates to OSHPD' master list	
54	NATIONAL	Provider NPI	WORKGROUP Recommendation	The 10-digit National Provider Identifier (NPI) is a unique identification number for covered health care providers	Critical	Providor / Group / IPA / Clinic	Required	CMS National Plan and Provider Enumeration System (NPPES)	Only one NPI number is required for each provider	
57	PROVIDER IDENTIFIER NUMBER	Facility NPI	ty NPI The Decision Devided Identifier (PMP) is a surge identification number for covered both and the former Fealing Required		Required	CMS National Plan and Provider Enumeration System (NPPES)	Only one NPI number is required for each facility			
58		Facility OSHPD ID	WORKEROUP RECOMMENDATION	OSHPD ID	Man-critical	Facility	Required	OSHPD		
	CALIFORNIA LICENSE NUMBER AND TYPE OF LICENSE, IF	License - Provider	WORKGROUP RECOMMENDATION	CH License : The professional license number issued by the relevant licensing outdority (i.e. a licensing boards at the CH Department of Consumer Affairs)	Critical	Pravidor/Graup/IPA/ Clinic	Required	CA Licensing Boards	If provide has a licease from a different stake, complete field for state and licease number and non-CA state licease number should be validet against the respective state. Liceasing Board "Discuss Date - Optional field Discussion of the consider creating a service as to the late pre-populate destination as appropriate field and the state has the served or matintial as appropriate pre-banking provider earling pre-banking services and y schemating provider earling and the state of the services and the service of the matintian as appropriate by rebanking provider earling and the services and the service of the matintian as appropriate by rebanking provider earling and the services and the services and the services and the services and the services and the services and services and s	
67	APPLICABLE	License - Facility	WORKSROUP Recommendation	CA License: The facility license type and number issued by the relevant licensing authority (i.e., licensing boards at the CA Department of Public Health)	Grittical	Fecility	Required	Relevant licensing authorities - CA Department of Public Health	Follow up: Work with CDPH or Licensing Boards to obtain a code set for facilities and licensing boards	
4	• Ove	rview SB137	Requirements	Specification Recommendat	ions Taxor	iomy nucc_ta	axonom 🕂 🗄 📢			
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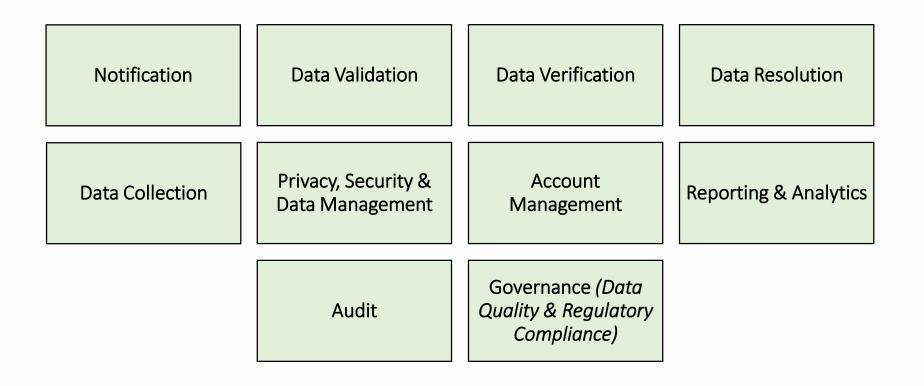


Business Process

Providers Examples: • Clinics and	Inputs: New records, updated information		Ê		
 Practices Facilities IPAs/Groups 	Outputs: Conflicts, confirmations, reminders, other notifications	Prov			
Payers & Marketplaces		Data Collection	Data Validation	Data Verification	
Examples: • Health Plans and Self-Insured	Inputs: New records, products/contract/ network information, updated information Outputs: Provider records, conflicts, confirmations, reminders, other notifications	Data Resolution	Notification	Privacy, Security & Data Management	
Employers • State • Insurance Marketplaces		Account Management	Reporting & Analytics	Audit	
Third Party Examples: • OSHPD			Governance (Data Quality & Regulatory Compliance)		
 Licensing Boards and Agencies NPPES NUCC/ABMS/AOA CHHS Open Data Portal Other data validation sources 	4	buts: Licensing & certification data, taxonomies, demographic information			

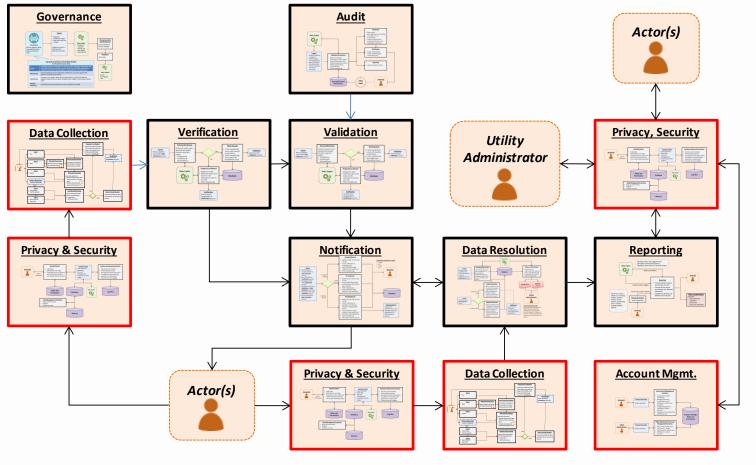


Business Processes



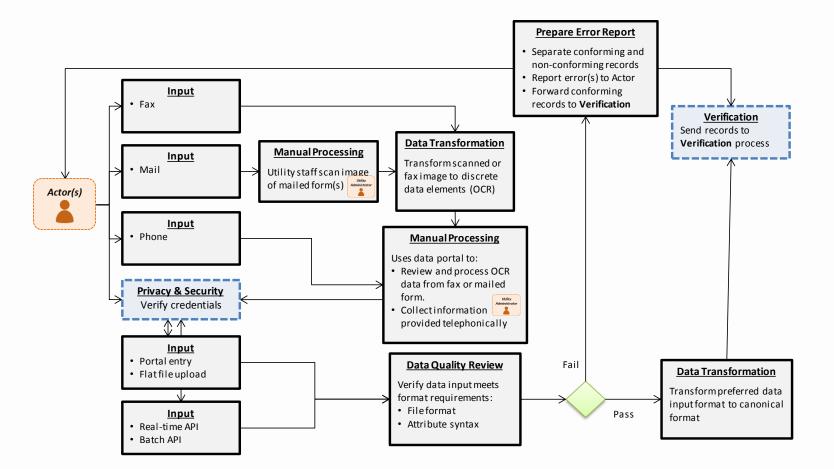


High-Level Flows



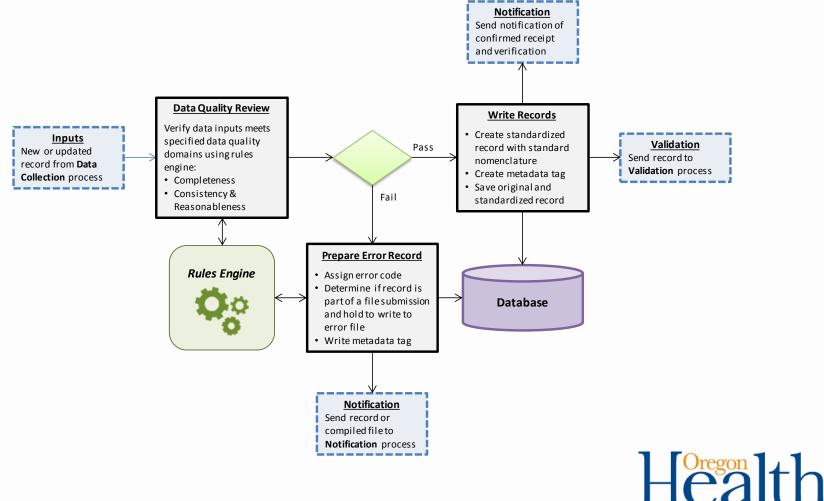
Health

Collection Data Flow



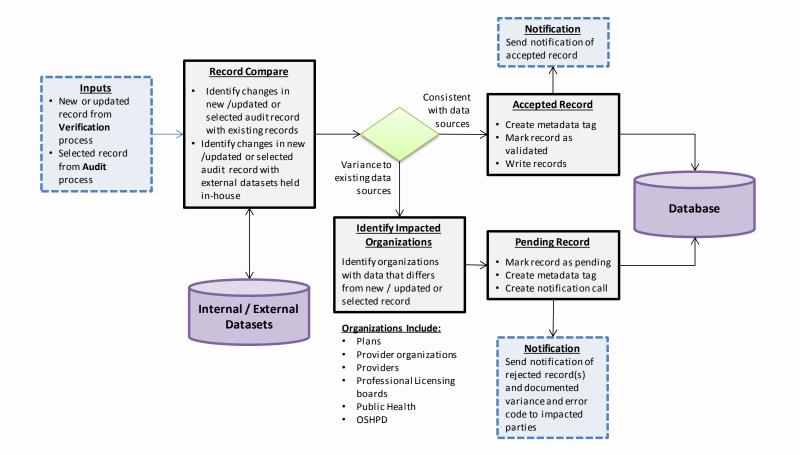


Verification Data Flow



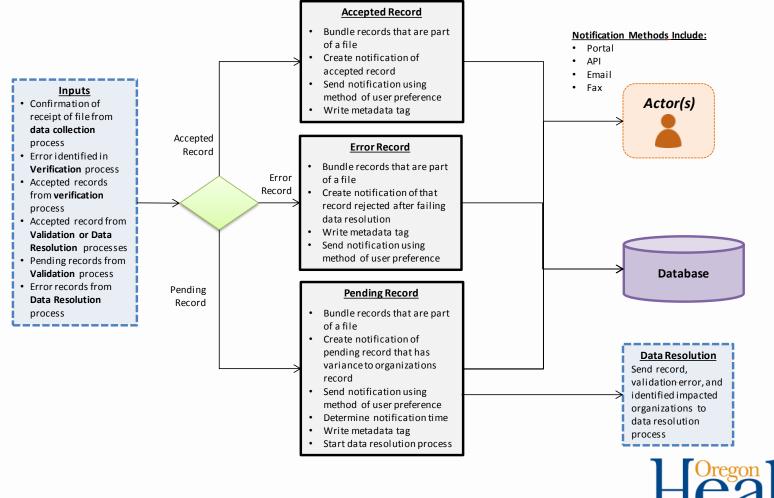
Authority

Validation Data Flow

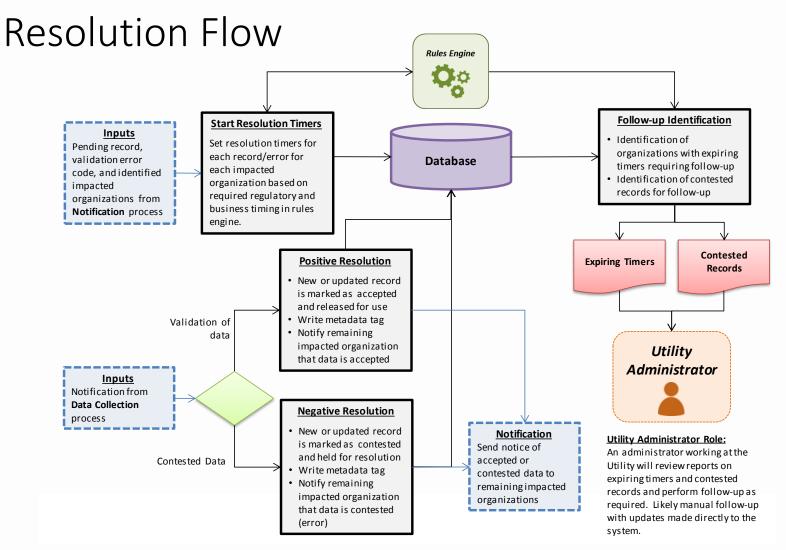




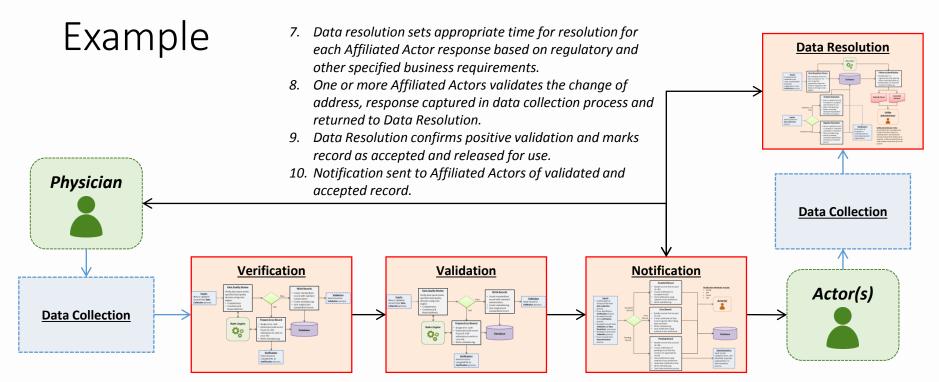
Notification Flow



Call







- 1. Physician changes practice address. Change record sent to verification from data collection process.
- 2. Record submitted passes verification quality checks, record are sent to Validation Process.
- 3. Updated record compared against existing data and does not match any existing records provided by physician, physician group or contracted Health Plans A, B and C.
- 4. Record marked as pending and saved to database. Record and error code indicating change of address sent to Notification Process.

Next steps... a work in progress

- Draft high-level requirements out for public comment
- RFP planned for vendor to provider utility service
 - See <u>https://plus.google.com/communities/112670235620127621740?np=rdGe6ZGa31WZ</u> <u>zRGclZWZjRDMkpnbilXdyJnb10GakN2MxoHL0Yme6V2My9mMpVGc11mMyk2cixme5J</u> <u>mcvFnbod3MzEje</u>

