





NV-HIE Health Information Exchange Supporting Clinical Integration

August 2nd, 2013

Introductions – Orion Health Team



Tristan Van Horne, Senior Sales Director



Jerry Rankin, Solution Consulting



James Date, Senior Vice President North American Sales



NV-HIE Business Drivers

- Want to partner with a vendor that has a solid reputation with the ability to execute
 - Based on budget and resources
- Optimize Clinical adoption
 - Provide considerable clinical value and ease of access
- Speed to sustainability
 - 3 Qualified Participants integrated by October 31st
 - Sustainable by February 7th, 2014
 - 75% of providers by 2015
- Select flexible technology foundation
 - Meet full breadth of requirements today and in future
- Public Health data integration



Why Orion Health

Ability to Execute - Most mature, global HIE vendor in the Market

- 20 Years experience Health Data Integration, most global EMR integration
- Leading State HIE Vendor Experience and Commitment
- Fastest deployment in market
- Most mature HIE SAAS solution on the market
- Most advanced technology stack
- Orion Health has widest and deepest messaging options
- Thought Leader in State and Federal Standards
- DIRECT "largest HISP provider in USA"

Clinical focus – Only way to really succeed

Experienced Clinical Adoption and Change Management Experts

National Leader Public Health Integration

49 States Public Health Departments, CDC including Nevada

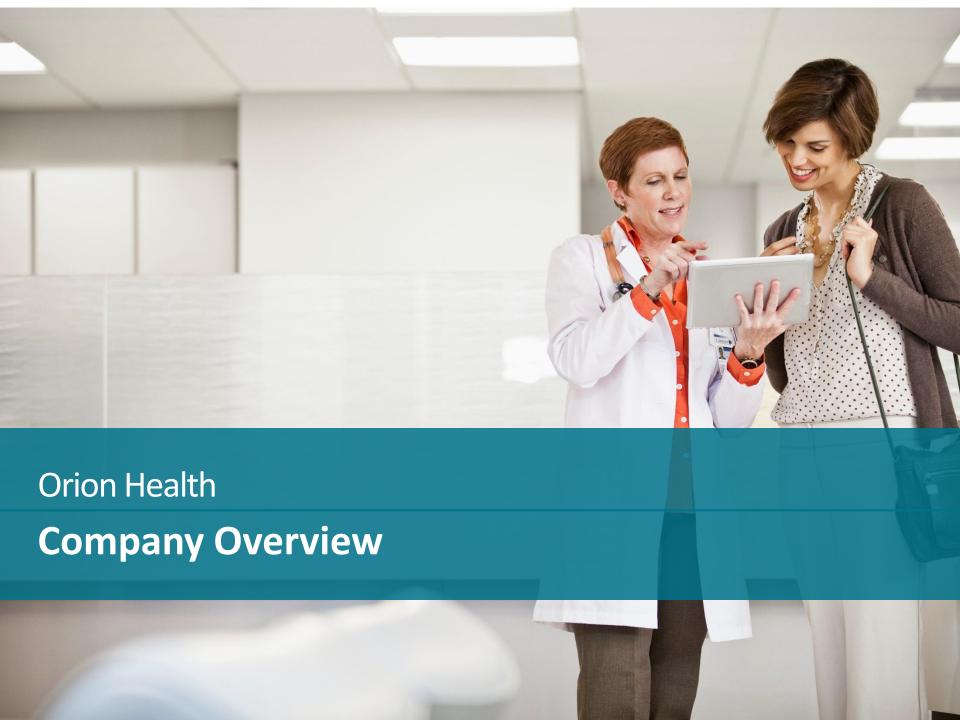
Extensibility: Case Management, Patient Portal, Population Health, EMR etc

- Value Add Services to Support Sustainability
- Breadth and depth of solution to meet future needs

Trusted Partner - Great company to work with:

- Currently partner with NV with Pilot DIRECT project
- Quality products, Quality people,
- We do what we say
- Privately owned No allegiances





Orion Health Overview

Independent Global Health IT company

20 years 30% year over organic growth

\$100M USD Revenue per annum

1000+ Customers, 5 continents, 30 countries

30+ large Health Information Exchange deployments globally

Santa Monica, CA (NA head office) and Boston, MA

Auckland, NZ (Development Center)

760 Staff

1993

2013



What the Analysts are Saying

July 2013, Chilmark HIE Report

Orion Health is the strongest independent HIE vendor in the market

Orion Health's easy-to-use solutions and applications improve patient care and clinical decision making by enabling the exchange of healthcare information among disparate systems and providing integrated health data in a single, unified view.

KLAS

May 2013, IDC Health Insights #HI240928 Customers comment that Orion Health's integration tools are flexible when it comes to accessing a wide variety of data sources, and the interfaces are configurable. Additionally, they report that Orion Health is an excellent partner and very responsive to customer suggestions.



HIE Customers

PUBLIC ORGANIZATIONS

- Nevada Direct, NV
- Alaska eHealth Network (AeHN), AK
- District of Columbia, DC
- Inland Empire HIE, CA
- Louisiana Health Care Quality Forum, LA
- Maine HealthInfoNet, ME
- Massachusettes, MA
- New Hampshire Health Information Organization, NH
- New Mexico Health Information Collaborative, NM
- North Carolina DHHS, NC
- North Dakota, ND
- North Texas Accountable Healthcare Partnership, TX
- Western Washington Rural Health, WA
- San Joaquin County HIE, CA





HIE customers







Orion Health HIE Solution Summary

Standard HIE

- Web-based access to the longitudinal patient record (Clinical Portal)
- Clinical Messaging: HL7, CCD, XDS, Web Services (Rhapsody™)
- Storage of clinical information (CDR)
- User Subscribed Notifications
- Privacy & Consent
- Semantic Interoperability
- Enterprise Master Person Index (EMPI)
- Open APIs

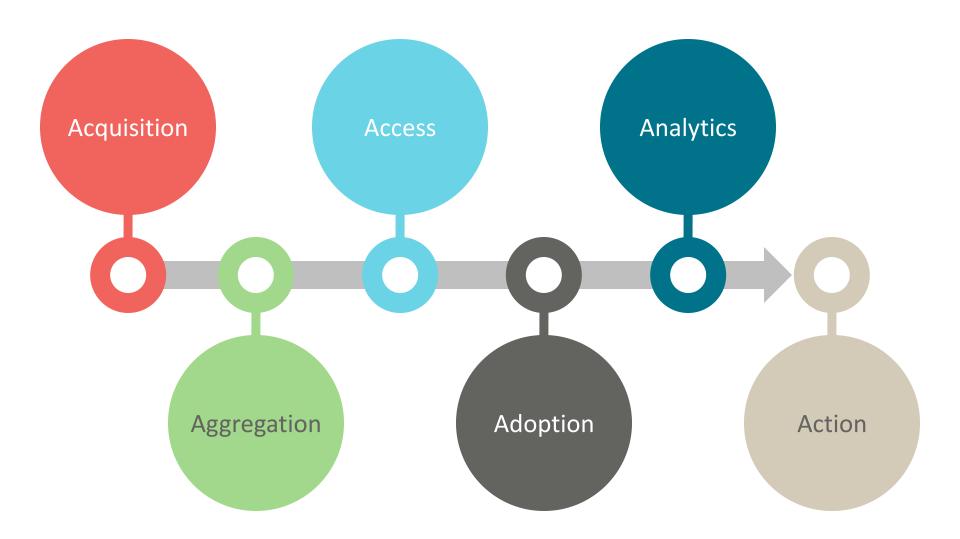
Add-on Modules

- NwHIN DIRECT Secure Messaging
- eHealth Exchange Gateway (NwHIN)
- Public Health Reporting
- Case Management
- Patient Portal
- EMR
 - Diagnostic Orders
 - HIE Problem List
 - Clinical Documentation
- Web-based Imaging
- Reporting & Analytics

"[Orion Health] is one of the more complete [HIE] solution on offer" Chilmark Research HIE Report

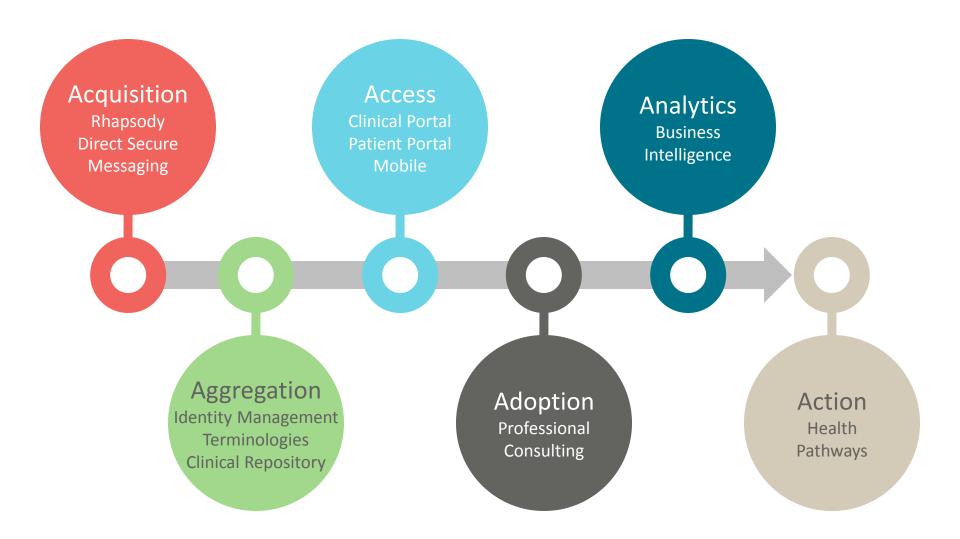


The Collaborative Care Timeline





Collaborative Care Suite of Products





Solution overview





Demographics Patients Providers

Normalization



Normalization Semantics Codeset Mapping

Data Repository



Labs, Rads Allergies, Diagnosis Documents

Medications Problems, Procedures

HIE Module





CCD Exchange Notifications Privacy & Consent Record Locator

Healthcare Service Bus

Parsing Validation Transformation Routing Acknowledgements



Privacy Filtering Security Filtering Index Lookups **Notification Routing**





eHealthExchange Gateway



HL7 CCD



Clinical Portal



Case Management **EMR Lite** Business Intelligence Web based Imaging **Direct Secure Messaging**

Patient Portal



Clinical Summary Secure Messaging Health Library Circle of Care

External Systems



eHealthExchange HIEs Medicare Medicaid Known Registries

Source Systems



EMRs EHRs Laboratory Radiology HIS











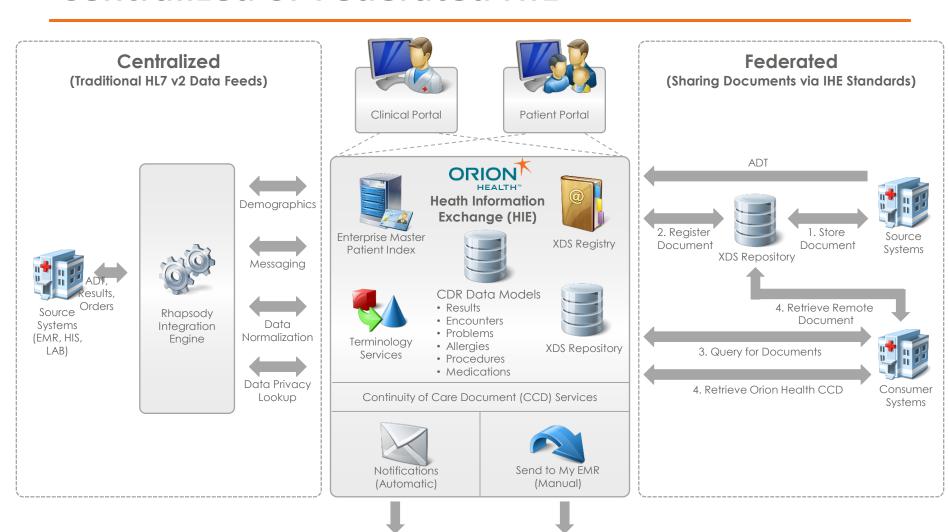








Centralized or Federated HIE



ORU, CCD

Email. SMS.

Secure Messaging





EHR connectivity options

- CCD-based exchange (standards based information exchange) between disparate EMRs
 - IHE profiles (especially PIX, PDQ, XDS, XCA, XCPD, XDR)
 - Rest APIs
 - Other EMR specific methods available
- HL7
- Clinical Notifications and Subscriptions
 - proactive decision support (clinicians don't need to look up information)
- Direct Secure Messaging
- Clinical Portal SSO from EMR
 - One click access to HIE patient record within Clinical Portal (SSO)



EHR Integration Experience

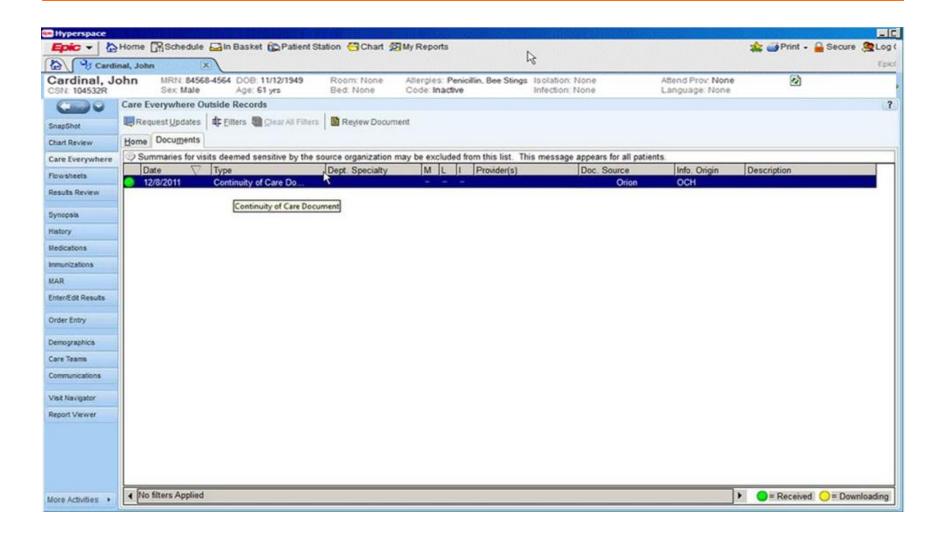
Bi-Directional Data Integration (HL7 and CCD)

- Cerner HIS
- Epic
- McKesson
- Allscripts
- Eclipsys
- Siemens
- Healthland
- Quest Lab
- Lab Corps
- Cerner Lab
- Sunquest
- Misys Lab
- CoPath
- Dictaphone
- Nuance
- GE Centricity
- GE Imaging

- Agfa
- IDX
- Phillips
- FujiFilm
- Deio
- Omnicare
- Merge
- eClinicalWorks
- NextGen
- Misys
- Cerner EMR
- MEDITECH
- M-Modal
- LSS
- Sage
- Greenway and many more.
- Many more HL7 / CCD

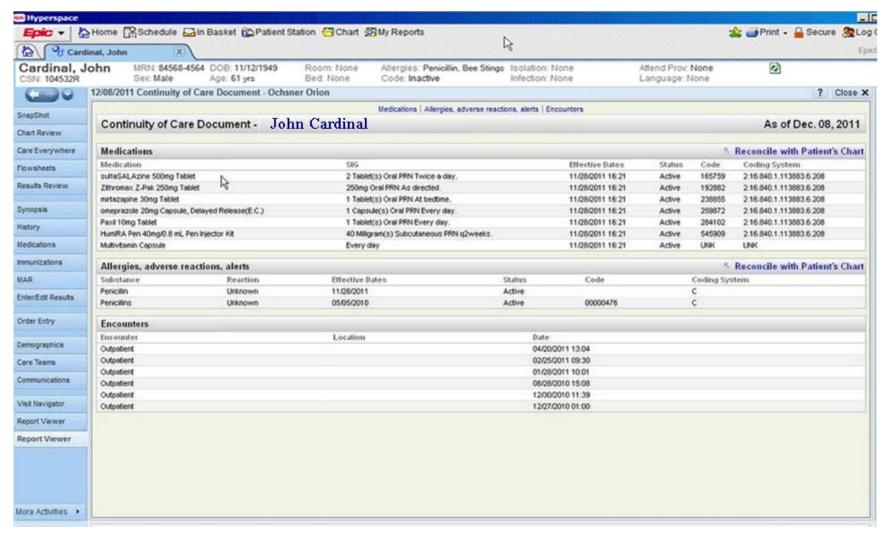


EPIC Care Everywhere – "Outside Data"

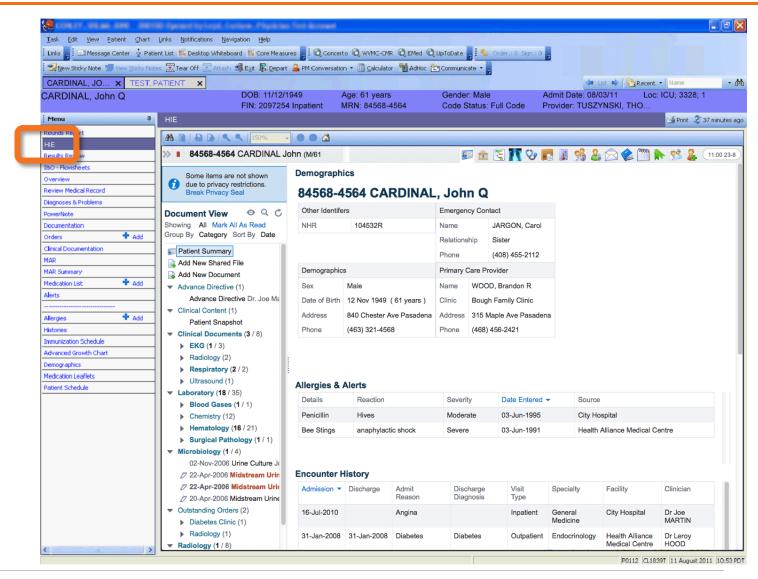




"Ingesting" Data from CCD (Epic)



Example integration (Cerner)









Public Health – Rhapsody Connect

Public Health Reporting

- 49 States and CDC use Rhapsody Connect
- Rhapsody™ Connect is specifically designed for public health reporting
- Automates reporting to provide fast, secure transmission of data between providers, public health agencies, HIEs, RHIOs, and other trading partners
- Rhapsody™ Connect filters and maps the data, converting local codes, when required, and validating content before securely transmitting it to the designated public health agency.
- Unique and specialized public health reporting algorithms constantly analyze clinical data to identify possible cases that fit the rules for public health reporting.
- Preconfigured Profiles to support different public health programs including:
 - Electronic Laboratory Reporting (ELR) Profile
 - CSTE Case Reporting Profile
 - Hospital Acquired Infection Profile
 - Biosurveillance Profile
 - Immunization Registry Profile
 - Discharge Reporting Profile
 - + custom reporting



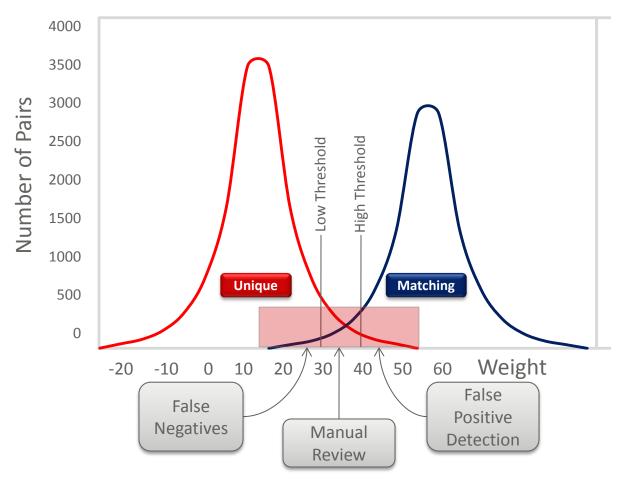


MPI

- Market leader in Performance and Price
 - KLAS December 2012
 - Highest Overall Score: 89.9
 - Buy Again: 100%
- Out of the box integration with Rhapsody/HIE
- Provides real-time, automated person matching across disparate source systems
 - PIX Manager
- Proven probabilistic matching algorithm
 - Configurable thresholds for improved accuracy
 - Frequency-based analysis generates weights based on customer's demographic data
 - Prevents creation of duplicate records
 - Reduces risk of accessing the wrong patient's data
- Creates Universal ID for patients to correlate patient data across multiple repositories
- Supports v2 and v3 PIX/PDQ, XDS, XCPD and IHE Profiles, JMS, web services
- Maximize accuracy, minimize rework



Matching



Matching Highlights

- Probabilistic + deterministic matching algorithms
- Golden record comparison
- Source based weighting
- Source based thresholds
- Extensible architecture





Provider Directory Options

Industry Leadership

- National Association for Trusted Exchange (WSC)
- IWG Pilots

Orion Health - Advanced Capability

- Individual Level/Entity Level
- Extensible
- HPD+
 - Interoperable with other systems
- Fully Integrated

NextGate Provider Directory Option

Also ILPD/ELPD and HPD+



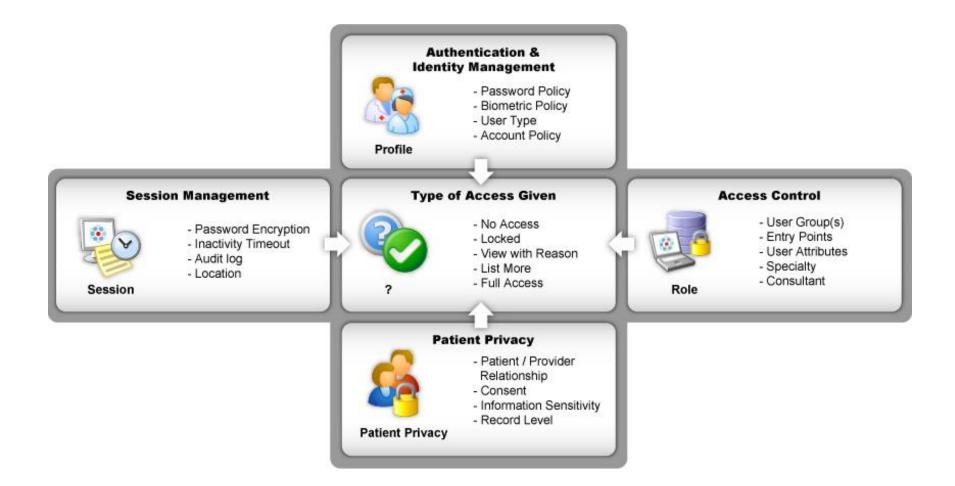


Patient Privacy and Consent

- Global Experience, Flexible Solution
- Restricts access to the patient record and/or documents/sections within the patient record
 - Full access, privacy-sealed, locked, hidden
- Rules based on
 - Doctor/Patient Relationships
 - User Role/Group
 - User Location
 - Patient Information (including consent)
 - Info Level Security
- All access is audited



Controlling Access





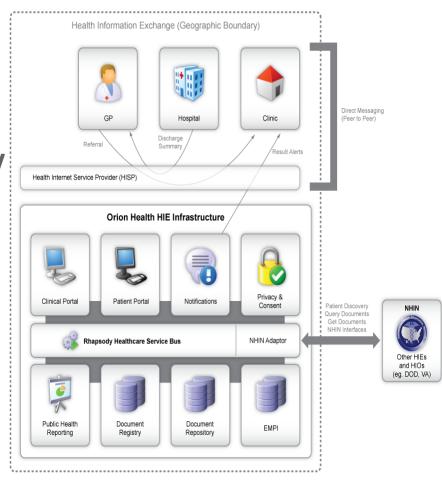
Auditing

.se	Time	User ID	Event Type	Message	Patient ID	Patient Name
gout	06 Feb 18:21	dr.standard	Privacy Override	dr.standard	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Context Change	Patient	DEMO0002	Rabbit Jessic
ts	06 Feb 18:21	dr.standard	Open Application	Orion - Dynamic Patient Summary, HMA - Dynamic Patient Summary	DEMO0002	Rabbit Jessica
on	06 Feb 18:21	dr.standard	Open Application	Orion - Dynamic Patient Summary, Patient Summary	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Open Application	Orion - Patient Search & Demographics, Demographics - Future	DEMO0002	Rabbit Jessic
oring	06 Feb 18:21	dr.standard	Open Application	Orion - Allergies & Alerts, Allergies & Alerts	DEMO0002	Rabbit Jessic
l Log	06 Feb 18:21	dr.standard	Open Application	Problem List, Problem List Windowlet	DEMO0002	Rabbit Jessic
y Log	06 Feb 18:21	dr.standard	Open Application	Orion - Medication History, Medication History (Grouped)	DEMO0002	Rabbit Jessic
ch	06 Feb 18:21	dr.standard	Open Application	Orion - Encounter History, Encounter History	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Search Performed	Orion - Allergies & Alerts, Allergies & Alerts		
saging	06 Feb 18:21	dr.standard	Search Performed	Orion - Encounter History, Encounter History		
	06 Feb 18:21	dr.standard	Search Performed	Orion - Patient Search & Demographics, Demographics - Future		
	06 Feb 18:21	dr.standard	Open Document	Continuity of Care Record	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Open Application	HIE, View CCD	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Open Application	HIE, View CCD	DEMO0002	Rabbit Jessic
	06 Feb 18:21	dr.standard	Open Application	Orion - Patient Search & Demographics, Demographic Search		
	06 Feb 18:21	dr.standard	Search Performed	Orion - Patient Search & Demographics, Demographic Search		
	06 Feb 18:22	dr.standard	Context Change	Patient		
	06 Feb 18:22	dr.standard	Privacy Override	dr.standard	103	Smith Jennife
	06 Feb 18:22	dr.standard	Context Change	Patient	103	Smith Jennife
	« Previous Next »					



eHealth Exchange Gateway (NwHIN)

- Industry Leadership
 - Founding Member Healtheway
 - Member EHR/HIE IWG
- Orion Health Exchange Gateway
 - Certified 8/12
- Healtheway Onboarding
 - Onboarding beginning Q4







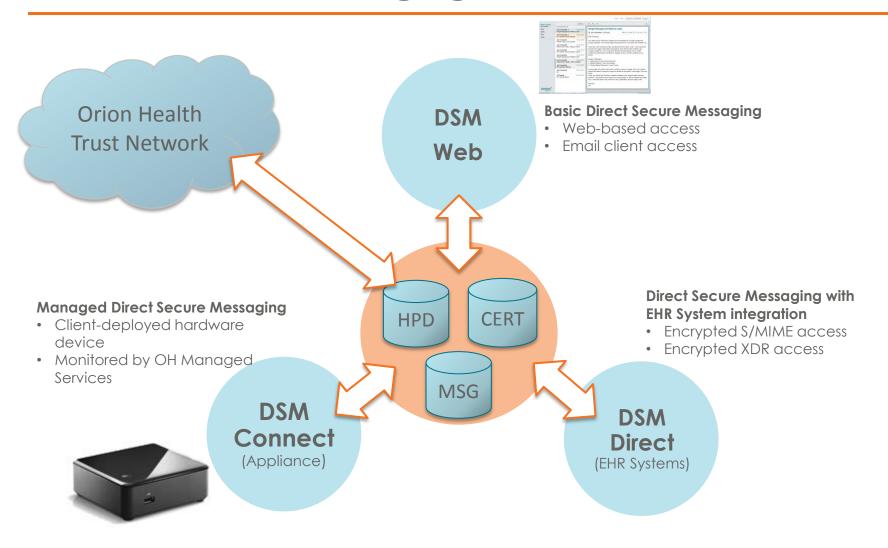
Orion Health Direct Secure Messaging (DSM)

Leading Provider of Direct Services

- 9 current clients and more soon to deploy
- 6500+ Direct addresses and growing
- Member of Direct Trust
 - HISP Accreditation (DT/EHNAC) target Q4
- Full service HISP
 - Certificate Authority/Discovery
 - Provider Directory
 - Routing, transformation, email services, webmail
- Enable Direct connectivity across ecosystem from smallest provider to fully enabled HER
- Nevada DSM: Upgrade not Migration



Direct Secure Messaging







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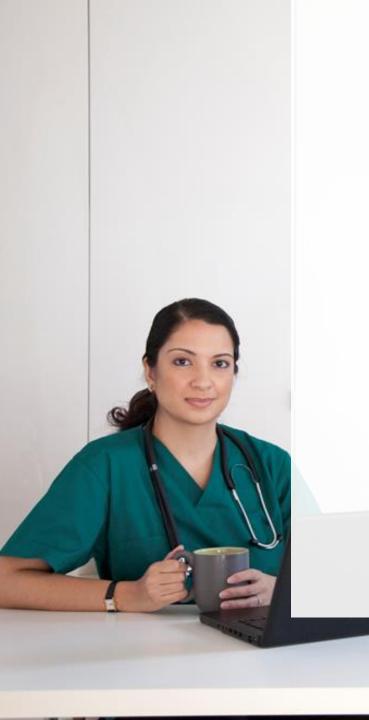
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www.orionhealth.com

Nevada Health Information Exchange (NV-HIE)

A Nevada non-profit corporation



NEVADA

HEALTH INFORMATION EXCHANGE AND ASSOCIATED SERVICES

RFP#: NV-HIE-01

THE COGNOSANTE TEAM ORAL PRESENTATION

August 2, 2013





Oral Presentation and Demonstration Agenda (90 minutes)

Product Demonstration: (55 minutes)

- Introductions & System Demonstration Overview (10 minutes)
- Demonstration (40 minutes)
- Summary (5 Minutes)

Oral Presentation: (30 minutes)

- Approach Overview
- Solution Differentiators

Evaluation Panel Questions and Answers: (30 minutes)

Questions & Answers



Introductions: Corporate Leadership

Name	Role
Jarred Clark Managing Director, Cognosante	Nevada State Account Manager
Dennis Dworman Vice President, General Manager, Cognosante	Cognosante Health Transformation
Mike Lundie HIE Practice Director, Cognosante	Cognosante HIE Practice Director
Sam Godwin Vice President Sales, Strategic Accounts, HealthUnity	HealthUnity Business Development
Prem Urali President and CTO, HealthUnity	Co-founder HealthUnity



Introductions: Key Personnel

	Name	Role	
P	Rhonda Warnack, PMP HIE Project Manager, Cognosante	Project Manager	
	Eric McLaughlin HIE Subject Matter Expert, Cognosante	Integration/Solution Liaison	
	Barb Filkins HIE Security Expert, Cognosante	Security Compliance Officer	
	Carol Robinson Principal, Robinson & Associates	Business Development / Marketing Lead	
	Rick Cavazos Operations Manager, Cognosante	Operations Manager	
	Vicki Hohner, MPA, PMP HIE Contract Manager, Cognosante	Contract Manager	
	Rajesh Kumar Senior Systems Architect, HealthUnity	Senior Solution Architect	



Introductions: Executive Advisory Group (Value Add)

	Role
Rick Williams Vice President, Business Development, Cognosante	Executive Advisory Group
Mark Shishida Executive Vice President, Business Development, Cognosante	Executive Advisory Group
Prem Urali President and CTO, HealthUnity	Co-founder, HealthUnity



About Team Cognosante





Product Demonstration

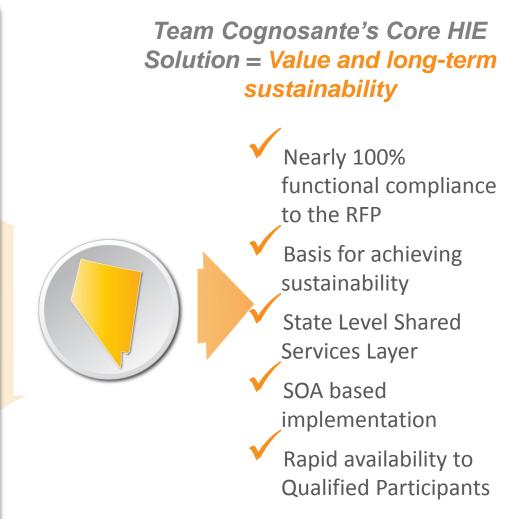
- Introductions & System Demonstration Overview (55 minutes)
 - Product Demonstration
 - Summary
- Oral Presentation (30 minutes)
 - Approach Overview
- Evaluation Panel Questions and Answers (30 minutes)



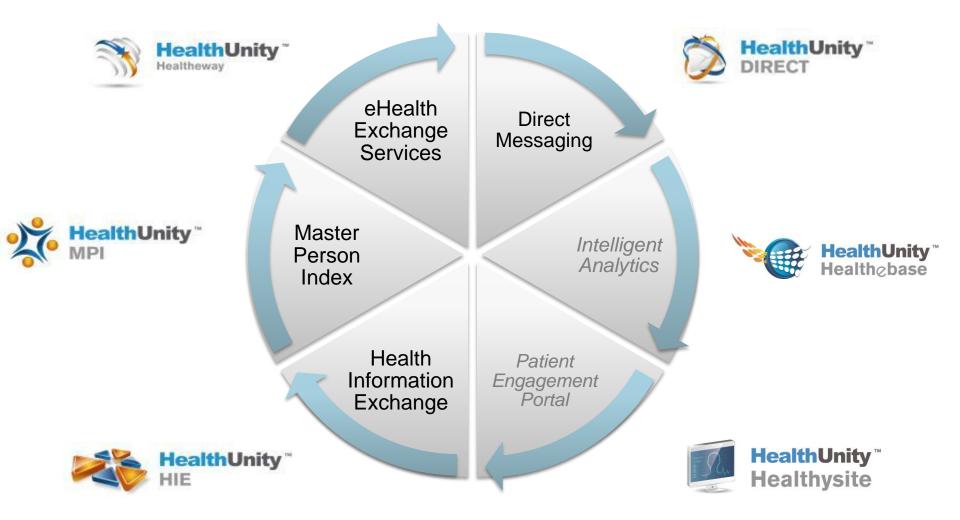
1. Core HIE Solution as addressed in RFP Section 2.2

Core HIE Solution:

- Master Patient Index
- Provider Directory
- Consent Management
- Record Locator Service
- Messaging & Interoperability (Direct & IHE)
- Clinical Portal
- Performance Reporting Services
- Gateway Services
- Query-Based & Direct Exchange



HealthUnity Solution Suite



2. Meaningful Use (MU) enabled for providers as established by the Centers for Medicare and Medicaid Services (CMS)

Meaningful Use:

- Exchange clinical information
- Submit immunizations to registries
- Submit syndromic surveillance reports
- Submit reportable labs
- Submit quality metrics including PQRS registry
- Maintain Meaningful Use product roadmap

Team Cognosante's approach to Meaningful Use enables providers and hospitals to fully meet Meaningful Use



Measure the impact of Meaningful Use

Support solutions that engage patients in Meaningful Use

Provide Public Health
Gateway Services

Improve integration with clinical workflows

Meaningful Use potential with our HIE Solution

Criterion #	Certification Criterion Name
§170.314(a)(11)	Smoking status
§170.314(a)(12)	Image results
§170.314(a)(15)	Patient-specific education resources
§170.314(b)(1)	Transitions of care – receive, display and incorporate transition of care/referral summaries
§170.314(b)(2)	Transitions of care – create and transmit transition of care/referral summaries
§170.314(b)(7)	Data portability
§170.314(c)(3)	Clinical quality measures – electronic submission
§170.314(d)(1)	Authentication, access, control, and authorization
§170.314(d)(3)	Audit report(s)
§170.314(d)(5)	Automatic log-off
§170.314(d)(6)	Emergency access
§170.314(d)(8)	Integrity
§170.314(d)(9)	Optional - accounting of disclosures
§170.314(e)(1)	* View, download, and transmit to 3rd party
§170.314(e)(2)	Ambulatory setting only -clinical summary
§170.314(e)(3)	Ambulatory setting only - secure messaging
§170.314(f)(2)	Transmission to immunization registries
§170.314(f)(3)	Transmission to public health agencies – syndromic surveillance
§170.314(f)(4)	Inpatient setting only - transmission of reportable laboratory tests and values/results
§170.314(f)(5)	Optional – ambulatory setting only - cancer case information
§170.314(f)(6)	Optional – ambulatory setting only - transmission to cancer registries
§170.314(g)(3)	Safety-enhanced design
§170.314(g)(4)	Quality management system

MU is achieved by a combination of HIE and EHR services

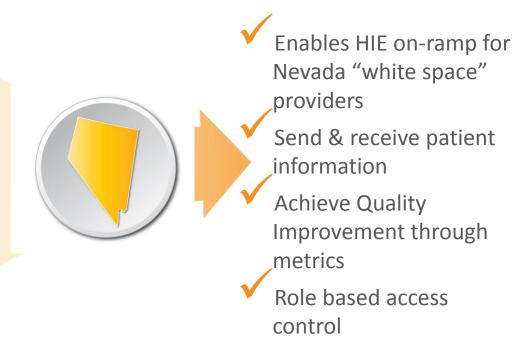


3. Clinical portal as a tool for physicians to view patient data from multiple sources in an intuitive and efficient manner

Clinical Portal:

- Intuitive and efficient User Interface
- Patient Search
- Query for patient clinical information
- View patient clinical summary with data from multiple sources
- Integration with Direct Secure Messaging
- Lab result delivery
- Alerts and notifications
- Analytics integration
- Consent Management & Break Glass
- Capability for future integration of eligibility check, claims submission

Team Cognosante's Clinical Portal delivers critical insight to enhance patient care





4. Service-Based Approach to the Solution

Service-Based Approach:

- Software-as-a-Service (SaaS) supports State Level Shared Services (SLSS)
- Service Oriented Architecture (SOA)
- Supports CMS Seven Conditions and Standards, MITA 3.0
- Supports standards based interoperability and profiles (XCA, XCPD, XDR, XDM)

Team Cognosante's SaaS model allows NV-HIE to focus on the business not the technology

Immediate access to core functionality to meet business use case

Promotes reliability of services with standards based interoperability

Allows participants flexibility in how they connect and exchange data

Security HIPAA, ARRA, Business Continuity



4. Service-Based Approach to the Solution

Point-of-care Access

- EHR Integrated Bidirectional
 Web-based EHR-lite
- NwHIN/Healtheway
- NwHIN/DIRECT XDM

Managed Care Applications

- Population Health Management
- Case Management
- Utilization Management

Patient Engagement Applications

- Non-tethered PHR
- □ Patient-generated Content
- Patient Education and Engagement

Public Health Access

- Web-based Access
- Syndromic Surveillance Integration
- □ Electronic Lab Reporting Integration
 □ Immunization Registry Integration
- Cancer Registry Integration

Enterprise Services Bus

Security Services SSO Service Consent Management Services Network Management Hybrid Registry and Repository (IHE Standard) ETL, Datawarehouse, Analysis and Reporting Services Common Terminology Services (HDD Access based) Reference Data Services Master Data Services (MPI) Provider Directory Secure Messaging HISP (DIRECT) Image Exchange Services Data deid Services



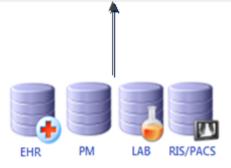


















SOA Interface List – Extensive Standards Support

- 1. HU-MPI
- HU-Node Server
- HU-Node Client
- 4. HU-Outbound Adapter
- 5. HU-Inbound Adapter
- 6. HU-Results Delivery
- 7. HU-PHR Gateway
- 8. XDS.b Repository

- 9. XDS.b Registry
- 10. PIX Manager (PIX, PDQ and PIX notifications)
- 11. HIE-Analytics
- 12. Directory Services
- 13. Certificate Authority Services
- 14. Healtheway NwHIN Services
- 15. DIRECT Services

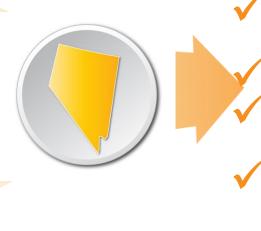


5. Direct Secure Messaging

Direct Secure Messaging:

- Full HISP capability
- Pre-built adapters to make an EHR Direct ready through
 - Web services
 - API's
 - SMTP
- Provider Directory
- Active Directory integration
- Microsoft Exchange & Outlook support

Team Cognosante's Direct Secure Messaging supports meaningful use, enhanced coordination of care



Available to Qualified Participants

HISP services (HIE-HIE)

Convert legacy Direct accounts

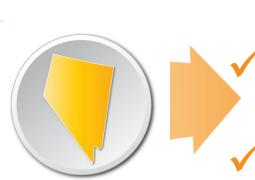
Direct services integrated within Clinical Portal or email client

6. Configuration and operation of Enterprise Master Patient Index (eMPI) services and capabilities

Master Patient Index:

- Probabilistic matching
- 13 point match criteria
 - Near zero false positives
 - Standards compliant
- Proven design for scalable performance
- Low Total Cost of Ownership (TCO)
 - Low deployment time and cost
 - Low runtime cost
- Administrative portal to facilitate adjustment of match rules and thresholds
- Insightful built-in reports
- Supports PID/PDQ

Team Cognosante's eMPI provides an enterprise solution with high performance / low maintenance



Proven component in several large scale HIE deployments

Minimizes need for manual interaction and resolution

Available as a service to all qualified participants

Flexible match criteria

7. Other Components Critical to 8 Contract Elements

Eight Contract Elements:

- Master Patient Index (MPI)
- Provider Directory (Facilities, Individual)
- Centralized Content Management
- 4. Record Locator Services
- 5. Terminology Engine
- Messaging & Interoperability Services
- Clinical Portal
- Performance Reporting Services

Team Cognosante has included critical supporting components

Normalization

duped)

Composite CCD (de-

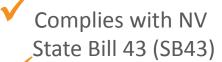


8. Centralized Consent Management

Consent Management:

- Opt-In/Opt-Out
- Opt-Out with exceptions
- Break the glass
- Granular level control

Team Cognosante's consent management services provide granular control to accommodate patient choice



Flexible Consent

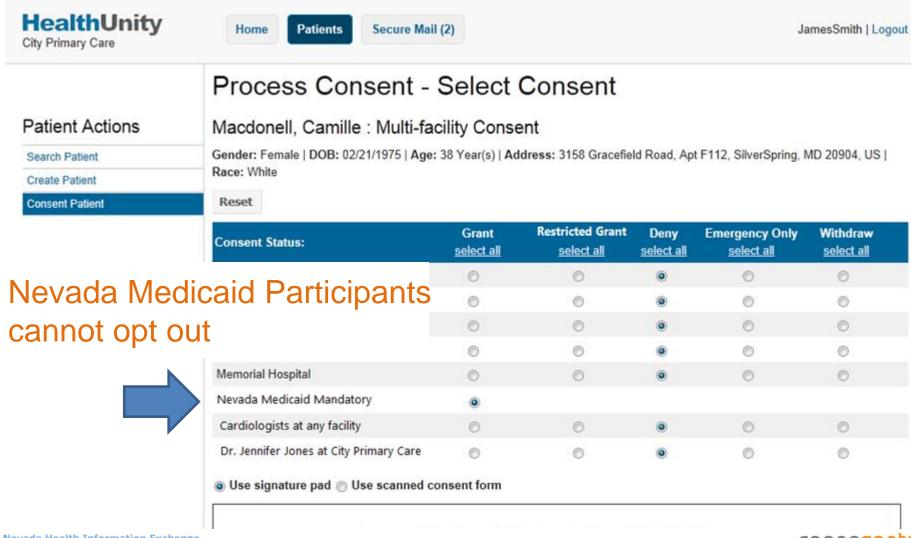
Management
accommodates policy
exceptions

Break Glass access for emergency settings

Consent preferences configurable through Patient Portal, PHR, and at Point-of-Care

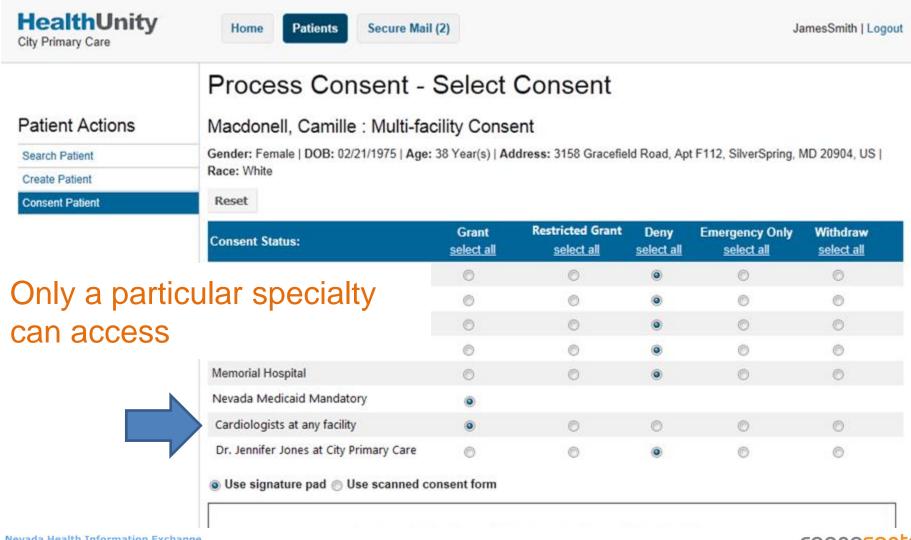


Configurable Consent Directives



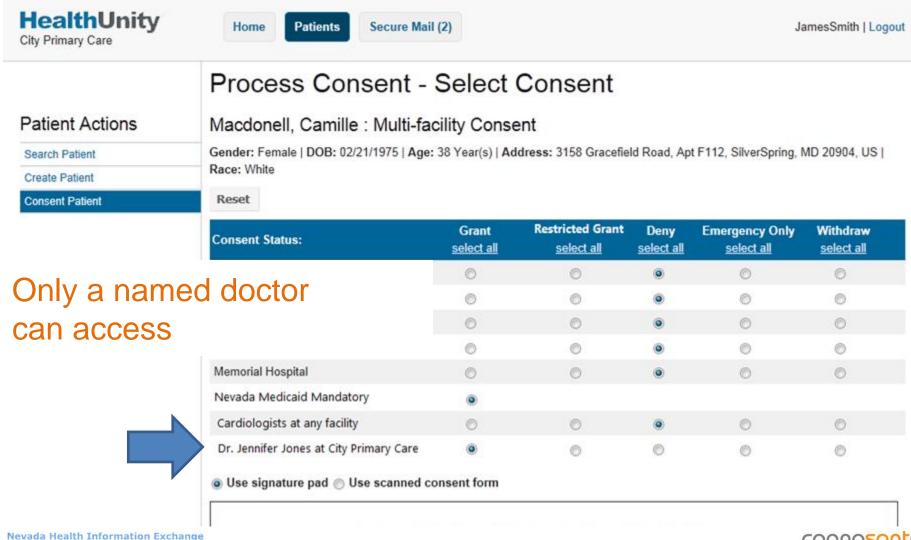


Configurable Consent Directives





Configurable Consent Directives





Configurable Consent Policy Templates



Specialized templates for implementing policies

Select Consent

facility Consent

Grant

ge: 38 Year(s) | Address: 3158 Gracefield Road, Apt F112, SilverSpring, MD 20904, US |

Deny

Emergency Only

Restrictions:

- No HIV/AIDS
- No genetic related
- No substance abuse related

tod	select all	<u>seiect all</u>	select all	select all	select all
ted	•	0	0	0	0
abuse related	•	©	0	0	©
contoco i injendano	•	©	0	0	©
Direct Gateway	•	©	0	0	©
Memorial Hospital	•	©	0	0	©
Nevada Medicaid Mandatory					
Cardiologists at any facility	•	0	0	0	©
Dr. Jennifer Jones at City Primary Care		0	0	0	

Restricted Grant



Withdraw

9. Subscribing for notifications based on ADT transactions

Subscription Notifications:

- Available to Qualified
 Participants on subscription basis
- Selectable & configurable events notifications
- Logging for completeness and accuracy of data feeds during facility onboarding and production
- Customized alert notifications (SmartStream)

Team Cognosante's solution to ADT notifications enhances patient care and reduce readmission rates



Alerts of hospital admission & ED discharge

Improves coordination of care through proactive notifications

Allows providers to control volume and frequency of alerts, reducing "alert fatigue"

Ability to add new clinical alerts based on rules with increased complexity

Push alerts to mobile devices and secure email



Data Validation and Interface Monitoring and Reporting

✓ Data Validation

- Syntax
 - Well formed message
 - Technology XSD schema validation
- Semantics
 - Required fields are present and in expected format
 - Technology Xpath validation
 - Cross field validation
 - Technology HU proprietary, XSLT and Schematron
- √ 24/7 automated monitoring
- ✓ Reporting done on a daily basis (configurable)



Copy of actual Error Report – Emailed Daily

Sent: Friday, May 17, 2013 4:00 AM

To: undisclosed recipients;

Subject: HIE Error Report: 05/17/2013 (20)

HIE Error Report: 05/17/2013

Total Errors: 20

Rejections are located here: \\pmhhieie01a\K\\$\HealthUnity\Adapters\FilteredRejections

# Errors	Facility	Node	Error Description
2	GSH	MSH_MEDCONNECT	(ADT^A08) PID-13: Data type error
4	FSH	MSH_MEDCONNECT	(ADT^A08) IN1-31: Table value not found
3	GSH	MSH_MEDCONNECT	(ADT^A04) PID-13: Data type error
2	GSH	MSH_CENTRICITY	(ADT^A08) PID-3: Missing MRN
2	FSH	MSH_CENTRICITY	(ADT^A08) IN1-31: Table value not found
2	SMH	SMH	(ORU^R01) PV1-2: Table value not found
3	GSH	MSH_CENTRICITY	(ADT^A04) PID-5: Missing name
2	MPP	MSH_CENTRICITY	(ADT^A08) Patient updation failed

CONFIDENTIAL: The information contained in this communication, including its attachments may contain confidential information and is intended only for the individual (s) or entity (ies) to whom it is addressed. The information contained in this communication may also be protected by legal privilege, federal law or other applicable law. If you are not the intended recipient of this communication, you are hereby notified that any distribution, dissemination or duplication of this communication is strictly prohibited. If you have received this communication in error please immediately delete and destroy all copies of this message and please immediately notify us of the error by separate communication. Thank you.



Alerts Demonstration

✓ Problems with intrusive alerting

- Generated when every event is notified. Hospital can have hundreds of thousands of patients
- No "go to" person to send the alert to
- Disrupts physician workflow
- Does not give a sense of completion

✓ Resulting in...

- Alerts being turned off
- Alerts not checked and acted on

✓ Solution

- Alerts generated when looking at patient's record
- Generated automatically for a patient list
- Designed specifically by physicians for physicians

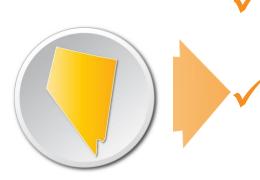


10. Exchanging Lab and Radiology Results

Lab & Radiology Data Exchange:

- Supports both HL7 v2.x and v3.x
- Provides ability to send/receive lab (ORU)results
- Viewable via Clinical Portal
- Supports Clinical Care Summary CCD (C32)
- Supports CDA C37 Lab
 Document
- Supports HL7 Radiology reports with embedded link to view corresponding image (i.e. PACS)

Team Cognosante's Core HIE solution enables the exchange of lab & radiology results that lower costs and improves patient care



Flexible ways to connect and exchange lab & radiology results

Providers have full access to lab & radiology data thru the Clinical Portal

✓ Supports Meaningful Use

11. Integrating medication data through use of the HIE

Medication Data Integration:

- Medication history available in Clinical Portal
- Medication data filters in Clinical Portal
- Ability to show active prescriptions from multiple sources in patient summary

Team Cognosante's Core HIE Solution captures a more complete medication history enhancing patient care

Supports achieving
Meaningful Use thru
the Clinical Portal

Providers have full access to patient medication history through the Clinical Portal

Future ability to add
Medication Therapy
Management alerts for
improved patient
safety





12. Sending & Receiving eHealth Exchange Data

eHealth Data Exchange:

- Proven Healtheway eHealth Exchange compliance
- Standards based interoperability
- Support for HL7 v2.x and HL7 v3.x
- Support for IHE Profiles and cross domain access
- Integration into DIRECT Platform
- Ability to exchange and aggregate data from across the Nevada ecosystem
- Ability to create summarized CCD "on the fly"

Team Cognosante's eHealth
Exchange Gateway enables
patient clinical data views from
multiple disparate HIEs



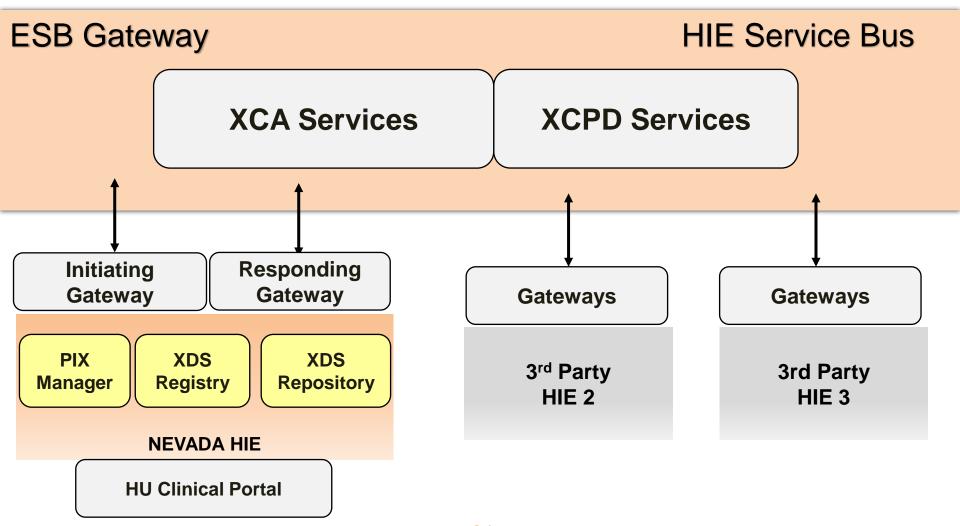
Also acts as State Agency Gateway Service for Public Health

implementation

True inter-state / intrastate, federal access and interoperability



Healtheway Architecture

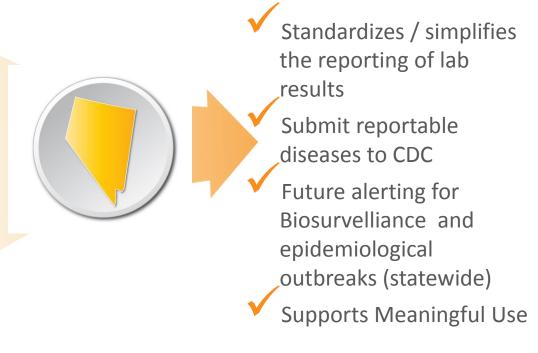


13. Lab Results Delivery for Public Health

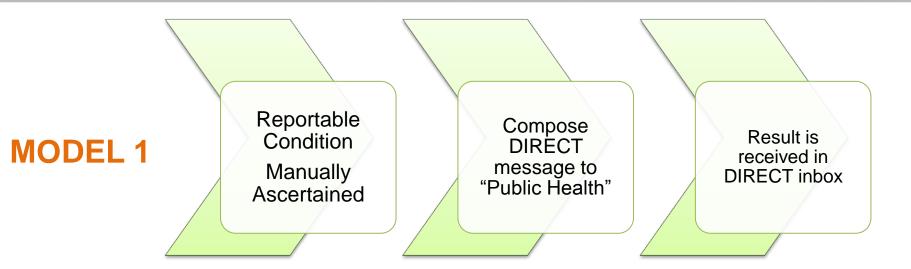
Lab Results & Public Health:

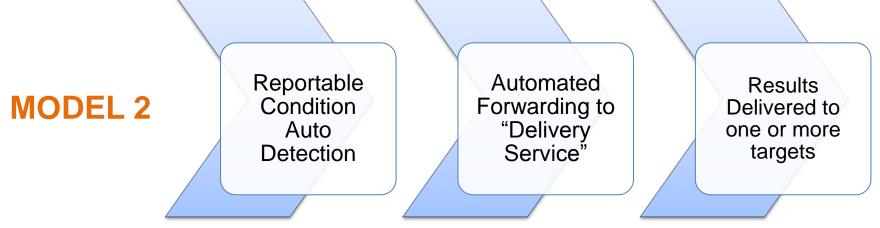
- Nevada ELR Gateway for Qualified Participants
- State LIMS integration
- Compatible with Direct Platform
- Support for HITSP IS 02 Biosurveillance

Team Cognosante's HIE Solution enhances Public Health reporting



Two Supported Delivery Models





Summary of Product Demonstration

- ✓ Core HIE Solution
- ✓ Meaningful Use
- ✓ Clinical Portal
- ✓ Service based approach
- ✓ Direct Secure Messaging
- ✓ Master Patient Index
- ✓ Other Components
- ✓ Consent Management
- ✓ Notifications
- ✓ Lab/Radiology Exchange
- ✓ Medication Integration
- ✓ Send/Receive Data
- ✓ Lab results to Public Health



- ✓ Enables providers and hospitals to fully meet Meaningful Use
- **✓** Delivers critical insight to enhance patient care
- Allows NV-HIE to focus on the business not the technology
- Direct Secure Messaging supports meaningful use, enhanced coordination of care
- ✓ enables patient clinical data views from multiple disparate HIEs
- ✔ Provides an enterprise solution with high performance / low maintenance





Oral Presentation

- Introductions & System Demonstration Overview (55 minutes)
 - Product Demonstration
 - Summary
- Oral Presentation (30 minutes)
 - Approach Overview
- Evaluation Panel Questions and Answers (30 minutes)



1. Consent Management Approach and Processes

- ✓ Step One: Address governance and harmonization thru use cases
 - Primary best for Nevada -- > Nevada (HIPAA/SB 43)
 - Secondary look at any major State program exception
 - Tertiary look at neighboring states & harmonize
 - Eventually incorporate patient preferences
- ✓ Step Two: HU technical architecture enables implementation
 - Consent management terminology (templates, directives, status)
 - Development of policy rules/directives
 - Access methods to consent registry (e.g., modeled after BPPC)
 - Paperless consent contract capture (digital signature)
- ✓ Step Three: Develop Nevada toolkit
 - Develop list of statewide policies
 - Document primary use cases with diagrams
 - Cover rules of use, scope, provider training → Patient Consent Education and Awareness Plan



2. EMPI Configuration and Operation

- ✓ Built and optimized for healthcare
 - Near zero false positives
 - Standards compliant
- ✓ Designed for scale and performance
- ✓ Low TCO
 - Low deployment time and cost
 - Low runtime cost
- ✓ Time tested and scale tested in the real world
- ✓ Insightful built-in reports
- ✓ SaaS ready

HealthUnity services
customers in both the public
and private HIE setting, and
they have continued to add
new HIE customers over the
past year. Clients like the
ease of implementations and
note a strong EMPI.

Customers view HealthUnity as a flexible partner that works to help them meet their needs.

2012 KLAS Performance Report



3. Provider Directory Configuration and Operation

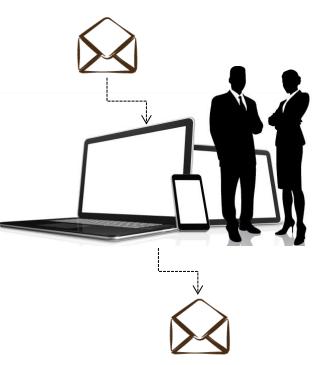
- ✓ Built on a standards-based LDAP directory
- ✓ Model entire network at one place
 - Manage provider registration
 - Manage node registration
 - Manage services registration
- Real time sync with your existing provider directory
- ✓ Standard based API to search and manage providers
- Provides the foundation for future Statewide Provider Identity Management Services



4. Migration of Nevada Direct Messaging Capability

- Migration of existing Nevada Direct Messaging capability to HIE Contractor's platform (i.e. Direct addresses, user credentials, certificates, message history, etc.). Confirmation that migration costs will not be charged to NV-HIE.
 - 1. Preferred approach For each mailbox, all legacy mails are exported into a PST file that is encrypted and password protected after it has been created on a secure server.
 - 2. Alternate approach Use Microsoft Outlook .msg file format for messages. Create a folder per mailbox and export each message as a .msg file into the folder. Zip the root folder and encrypt the entire zip file on a secure server.
 - 3. Vendor agrees to a deadline by which they provide this exported data. Deadline will be set by NV-HIE.
 - 4. Vendor agrees to compliance to above standards before conversion





5. Hospital and eHealth Exchange Integration

- ✓ Enables ability to connect to other HIEs such as "Statewide HIE"
 - Share data with multiple external HIEs simultaneously
 - Pull data from multiple external HIEs simultaneously
- ✓ ESB Gateway service extends XCA/XCPD capabilities
 - Single end point for interaction with multiple HIEs
 - Control data sharing between HIEs
 - Provides Instrumentation and extended audit logging
- Monitoring reports
 - Usage reports
 - Availability reports
 - SLA reports
- ✓ Standard based interfaces
- ✓ Cloud based, SaaS ready



6. Differentiators and Strategic Advantages – "Best Fit" HealthUnity

- ✓ Robust eMPI
- Record Locater Service
- Provider Directory (Individual, Org)
- Centralized Consent Management
- DIRECT HISP Services

- Provider Portal Access
- Consolidated Clinical View
- Messaging and Interoperability IHE Support
- Syntactic & Semantic Normalization
- Performance Reporting / Monitoring





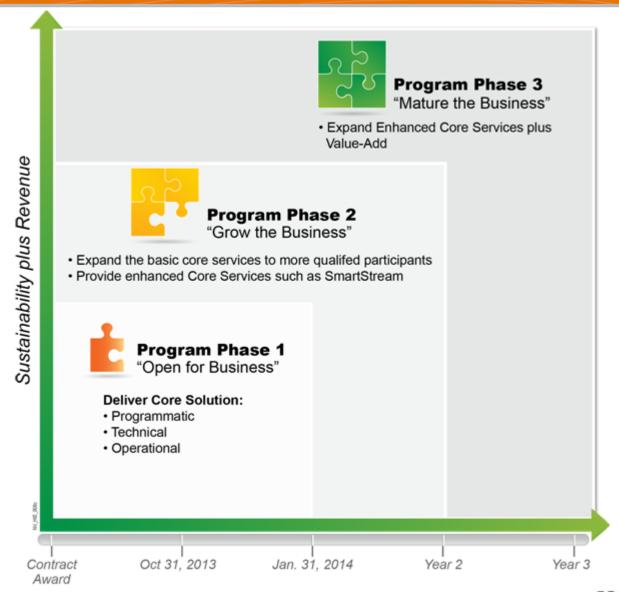






Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise

6. Differentiators and Strategic Advantages – Approach



6. Differentiators and Strategic Advantages – "Open For Business"

- Core Services by October 31, 2013
 - Business Development / Support
 - Solution Implementation / Configuration
 - Privacy / Security, Consent Establishment
 - Integration Services

Scope of Program - Phase 1 thru 1/31/14

- 10 Qualified Participants
 - 700 DIRECT Accounts
 - 7 Clinical Portal Access Only
 - Data Feeds for 3 Qualified Participants
 - 1 ADT, Clinical Feeds (CCD, or HL7 Medication, Lab, Radiology)











Education, Outreach Training

Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise

6. Differentiators and Strategic Advantages – "Grow The Business"

- Continued Operational Support
- Expanded Connectivity
- Transition to Self Sufficiency
- ✓ Clinical Decision Support
- Statewide Adoption Centralized
 Consent Management

- Introduction of HIE intelligent
 Notification/Routing Services (SmartStream)
 - Integration with Telehealth
 - Emergency Room Notification
- Statewide Identity Management, Proofing, Brokering Services











Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise

6. Differentiators and Strategic Advantages – "Enhance The Business"

- "Ease Administrative Burden of Provider"
 - Eligibility Check
 - Claims Submission
 - Prior Authorizations

- Population Monitoring
 - Quality Metrics
 - Notifications
- ✓ Patient Portal
- Nevada State Based Insurance Marketplace Integration



Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise

6. Differentiators and Strategic Advantages – Experienced Team

Highly qualified Team

Established processes for managing and selecting sub-contractors

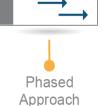
In-depth knowledge of healthcare programs and systems – including HIE, MMIS, Medicaid, Eligibility, HIX, MITA

HIE Experience in - OR, CA, OK, AK, AL,

NY, KY, AZ, MD

Proven HIE Solution

HealthUnity



Unique HIE Vendor Viewpoint

- In depth experience
 - SI, Implementation, IV&V
 - Aetna (Medicity), Orion, Optum Insight (Axolotl), ACS, dbMotion, Covisint, HealthUnity, Mirth

Lessons Learned





Education, **Outreach Training**

Proven HIE Solution * Industry Standards * Lessons Learned * Technical Advisory Group HIE Best Practice ★ HHS/Medicaid Expertise

Experienced

Team

6. Differentiators and Strategic Advantages – HIE Program Support

- Complimentary set of consulting services and technology solutions
 - Developed and refined over the past 26 years in 48 states
- Realistic Approach for Sustainability
- Innovative Risk/Reward Strategies
- **Award-winning Customer Support**

- HIE "Best Practices"
- Refined HIE on-boarding strategies
- Value-added services (e.g. SmartStream, Clinical Decision Support, Real-Time Business Intelligence)
- State-level stakeholder consensus building











Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise

6. Differentiators and Strategic Advantages – Education, Outreach and Training

- **✓ Strategic** Outreach Support
 - Research-based
 - Use limited resources wisely
 - Build the brand with champions
 - Build the value with use-cases
 - Build the trust with quality
 - —Create network effect

- Quality Education and Training
 - Know the audiences
 - Target the messages
 - Provide a variety of education and training tools
 - Train-the-trainer







Proven HIE Solution ★ Industry Standards ★ Lessons Learned ★ Technical Advisory Group
HIE Best Practice ★ HHS/Medicaid Expertise



Team Cognosante Differentiators

Nevada First – As your System Integrator Cognosante we are focused on providing more than HIE solution - we bring an approach, team and services needed for success

"Best Fit" HIE Solution – HealthUnity HIE Solution is designed for easy, low cost implementation and provides the components you need to establish a solid HIE foundation

Value Driven Implementation – We will implement the Core HIE with an emphasis on delivering value for Participants

Focus on Sustainability – A robust education, outreach and training approach will foster long-term participation

Quality Customer Support – We listen to the voice of the customer to meet your needs and exceed your expectations

Risk/Reward Partnership – We offer value-added services and will seek innovation for sustainability







Evaluation Panel Questions and Answers (30 minutes)

- Introductions & System Demonstration Overview (55 minutes)
 - Product Demonstration
 - Summary
- Oral Presentation (30 minutes)
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- Evaluation Panel Questions and Answers (30 minutes)



Cognosante.com

7926 Jones Branch Drive, Suite 330 | McLean, VA 22102

P: 480.481.5978

