CONNECTIVITY IN THE COMMUNITY

Peter Bascom, Chief Architect, eHealth Ontario
Guy Fortin, Chief Architect,
Ontario Association of Community Care Access Centre
What is the Electronic Health Record (EHR)?

The provincial EHR will bring together all of the health information that follows a person through their life and care journeys.
Architecture, Standards & Planning
The path to the Interoperable EHR...

Ontario’s eHealth Blueprint — *The What*
- Provides a future state, high-level view of the EHR

**Ontario’s eHealth Blueprint — The What**
- Business View
- Information View
- Systems View
- Standards

Connectivity Strategy — *The How*
- Outlines the steps to go from the current state EHR to the future state EHR
- Defines assets as either strategic or tactical
- POS Connectivity Requirements

**Connectivity Strategy — The How**
- EHR Roadmap — *The When and Who*
  - Describes when varying components of the Blueprint will be ready and by whom
  - Includes: Business Outcomes View, High-Level Systems and Detail-Level Systems and Program View

**EHR Roadmap — The When and Who**
Ontario’s Action Plan for Health Care

Right care, right time, right place

How does the work of eHealth Ontario assist in delivering healthcare reform?

- We are helping to improve health system integration and accessibility by building Ontario’s interoperable electronic health record.
The Connectivity Strategy

- How we move toward the Blueprint’s future vision
- Informs strategic decisions
- Framework for discussion
- Practical guidance
Provincial EHR Asset Inventory

- Description and purpose of EHR assets from across the province
- Assets classified as Strategic or Tactical
- Online, searchable & comprehensive
- Updated quarterly
Flow of EHR Information

Source Systems → Provincial Repositories and Registries → Delivery Channels and Enablers
EHR Integration

Provincial Client Registry

- One client, one record

Provincial Provider Registry

- eReferral, care team

Consent and Audit

- Consistent control and review of access
EHR Integration

ONE ID

Clinical Repositories

Health Information Access Layer

✔ Provincial single sign-on

✔ Consistent EHR availability and quality

✔ Consistent privacy and security controls
Future State Connectivity Overview

**Provincial EHR Integration Assets**
- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- XDS Registry
- Agreements
- Subscriptions and Notifications
- ONEID

**MOHLTC Data Sources**
- MOH-CPDB
- MOH-RPDB
- MOH-CAPE/CLAIM

**Provincial Repositories**
- OLIS Repository
- Primary Care
- Prescribed Registry
- CHRIS (CCAC)
- CDR
- IAR
- DI Reports
- MOH-IRS
- Analytics Repository

**eHealth Ontario HIAL Segment**
- Greater Toronto Area HIAL Segment
- Provincial HIAL
- North Eastern Ontario HIAL Segment
- SWO HIAL Segment
Future State Connectivity Overview
Future State Connectivity Overview

Provider

Primary Care Provider

POS Systems

EMR

Connecting SWO

cSWO Provider

Clinical Connect Viewer

Clinical Data Viewer

cSWO Connection Engine

Connecting NEO/GTA

cGTA Provider

cNEO Provider

Clinical Data Viewer

ONE Portal

Consumer eHealth Solution

Provincial Provider

Health Care Client

Provincial EHR Integration Assets

Client Registry (PCR)

Provider Registry

Consent - Service

Privacy Audit

Terminology Management

De-Identification Services

Service Registry

XDS Registry

Agreements

Subscriptions and Notifications

ONEID

MOHLTC Data Sources

MOH-CPDB

MOH-RPDB

MOH-CAPE/CLAIM

eHealth Ontario HIAL Segment

GTA HIAL Segment

Provincial HIAL

NEO HIAL Segment

SWO HIAL Segment

Provincial Repositories
Future State Connectivity Overview

- eHR Systems
- Primary Care Provider
- Connecting SWO Provider
- Connecting NEO/GTA Provider
- Provincial Provider
- eHR Systems Primary Care Connecting SWO Connecting NEO/GTA ONE Portal Patient
- POS Systems
- EMR
- Clinical Data Viewer
- Clinical Connect Engine
- eSWO Connection Engine
- eSWO
- cGTA
- cNEO
- Provincial Provider
- ONE Portal
- Provincial Provider
- Health Care Client
- Consumer eHealth Solution
- Provincial EHR Integration Assets
  - Client Registry (PCR)
  - Provider Registry
  - Consent - Service
  - Privacy Audit
  - Terminology Management
  - De-identification Services
  - Service Registry
  - XDS Registry
  - Agreements
  - Subscriptions and Notifications
  - ONEID
Future State Connectivity Overview

Providers:
- eSWO Provider
- cGTA Provider
- cNEO Provider

Provincial Provider

Health Care Client

eHealth Solution

POS Systems
- EMR
- Clinical Data Viewer

eHR Systems
- Connecting SWO
- Connecting NEO/GTA
- ONE Portal

Consumer

Clinical Connect
Connection Engine

EHR Systems
- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- Agreements
- Subscriptions and Notifications
- ONEID

MOHLTC Data Sources
- MOHLTC (MOH-CPDB, MOH-RPDB, MOH-CAPE/CLAIM)

Ontario HIAL Segment
- GTA HIAL Segment
- NEO HIAL Segment
- SWO HIAL Segment

Provincial Repositories

eHealth Ontario HIAL Segment
Future State Connectivity Overview

- eHR Systems
  - Primary Care Provider
  - POS Systems

- Connecting SWO
  - Clinical Connect Viewer
  - cSWO Connection Engine

- Connecting NEO/GTA
  - Clinical Data Viewer
  - cGTA Provider
  - cNEO Provider

- ONE Portal
  - Clinical Connect Viewer

- Provincial Provider

- Patient
  - Consumer eHealth Solution

- Provincial EHR Integration Assets
  - Client Registry (PCR)
  - Provider Registry
  - Consent - Service
  - Privacy Audit
  - Terminology Management
  - Re-identification Services
  - Service Registry
  - XDS Registry
  - Agreements
  - Subscriptions and Notifications
  - ONEDID

- eHealth Ontario HIAL Segment
  - GTA HIAL Segment
  - Province HIAL
  - NEO HIAL Segment
  - SWO HIAL Segment

- Provincial Repositories

- MOH-LTC Data Sources
Future State Connectivity Overview

**Client Registry (PCR)**
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- AUS Registry
- Agreements
- Subscriptions and Notifications
- ONEID

**Provincial Repositories**
- MOHLTC Data Sources
- MOH-CPDB
- MOH-RPDB
- MOH-CAPE/CLAIM

**eHealth Ontario HIAL Segment**

**GTA HIAL Segment**

**Provincial HIAL**

**NEO HIAL Segment**

**SWO HIAL Segment**

**Clinical Connect**
- Viewer
- cSWO Provider
- eSWO Connection Engine
- Provincial Provider
- Consumer eHealth Solution
- ONE Portal
- Provincial EHR Integration Assets
- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- AUS Registry
- Agreements
- Subscriptions and Notifications
- ONEID
Future State Connectivity Overview

Provincial EHR Integration Assets

- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- XDS Registry
- Agreements
- Subscriptions and Notifications
- ONEID
Future State Connectivity Overview

Provincial EHR Integration Assets
- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- XDS Registry
- Agreements
- Subscriptions and Notifications
- ONEID
Clinical Domains

Integration

Provincial EHR Integration Assets

- Client Registry (PCR)
- Provider Registry
- Consent - Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- XDS Registry
- Agreements
- Subscriptions and Notifications
- ONEID
Care Settings

Integration

Provincial EHR Integration Assets

- Client Registry (PCR)
- Provider Registry
- Consent-Service
- Privacy Audit
- Terminology Management
- De-Identification Services
- Service Registry
- XDS Registry
- Agreements
- Subscriptions and Notifications
- ONEID
Community Care

Community Care Access Centres
Community Support Services
Home Care Providers
Mental Health & Addiction
Long Term Care Homes
Public Health Units

=

Patient
Current State Connectivity: Community
Current State Connectivity: Community

- Home Care Contracted Service Provider
- Equipment Supplier
- Long Term Care Home
- CCC/Rehab
- Primary Care Doctor
Current State Connectivity: Community
Current State Connectivity: Community
Current State Connectivity: Community

- Health Care Client
- Community Service Provider
- iSWO Provider
- Hospital Provider
- Provider
- Care Coordinator
- Referral Target Provider
- Referral Source Provider
- Provincial Provider

- MyChart Coordination Tool (CCT)
- Clinical Connect Viewer
- HIS
- Health Partner Gateway
- Client Health and Related Information System (CHIRIS)
- DATIS

- Patient Monitoring Device
- Patient Monitoring System (PMS)

- EHR Content
- Client Summary
- EHR Data
- Client Card Assignments
- Medication Summaries

- OMD – Hospital Report Manager (HRM)
- Hospital eNotification (HRM ORU)
- Client Health and Related Information

- Integrated Assessment Record (IAR)
- Health Network System (HNS) CDR
- cGTA CDR Solution

- LTC Case Data
- Assessments
- EHR Content
- EHR Data
- Referral Request
- Client Information
- eReferral Solution

- Client Health and Related Information System (CHIRIS)
- LTC Case Data
- cGTA CDR Solution
- CDR
Future State Connectivity: Community

Province-wide EHR Viewing

- Community Care
- Primary Care
- Acute Care
Future State Connectivity: Community

Wide-adoption of the provincial infrastructure services
Clinical Experience

Future state flow of information- All clinicians have all patient data from all sources, available and easily accessible, generating faster, better care in any setting.
Benefits of Integration:

- **To the Provincial EHR**
  - Patient Community care data available to share with circle-of-care
    - Home Care, Long Term Care, Mental Health & Addiction, Community Support Services, First Responders (e.g. EMS), Acute Care, Primary Care
  - Real-time sharing of changes in Patient’s Community care status
    - CCAC/CSSA: admit/discharge, service changes
    - EMS: 911 Call

- **To the Community Care Setting**
  - Access to comprehensive Patient care data from Acute and Primary care settings
  - Real-time receipt of Patient status change eNotifications
    - Acute Care: ED/in-patient admit/discharge
  - Improved data integrity
    - Client Registry, Service Provider Registry, Consent Registry, etc.
Let’s Connect

For more information about OACCAC

https://oaccac.com/Contact-Us

Book an appointment with us today and discover how we can help you develop your ehealth solutions

architecture@ehealthontario.on.ca

Download the Blueprint and visit the microsite:

- www.ehealthontario.on.ca/en/architecture/blueprint
- www.ehealthblueprint.com

Sign up for our newsletter (Blueprint Bulletin) – and if you haven’t already discovered Ontario’s Ehealth Blueprint – the comprehensive framework for EHR planning and delivery across the province – it is now available online.