Orion Health’s Clinical Integration Framework

Connecting Healthcare Data
Within Facilities – Between Organisations – Across Regions and Nations

The Promise of Electronic Health Records

Across the world, national eHealth strategies have recognised the importance of Electronic Health Records (EHR) in moving towards a system of secure, interoperable and shared clinical data.

According to the European Commission¹, EHRs will make an integral contribution to meeting the challenges of 21st Century healthcare, including:

- the need to manage increasing rates of chronic disease
- enhancing services with limited available resources
- improving patient safety
- creating health services that are patient-centred and focused on prevention

A Framework for Building Your EHR

Orion Health’s technologies provide a scaleable Clinical Integration Framework that integrates clinical data across facilities, networks, organisations and nations, and forms the basis for building Electronic Health Records.

The Framework provides security, interoperability, scalability, reliability and flexibility with native support for commonly used healthcare standards such as HL7.

Our Clinical Integration Framework utilises a modular approach that can be adopted by healthcare organisations of all sizes – single hospital facilities, multi-facility hospital networks, as well as payer-funded networks and regional and national health authorities.

The Framework supports all EHR architectural approaches - centralised, distributed or hybrid. This means that organisations can build and expand their EHR safe in the knowledge that it can accommodate different policies regarding data ownership, interfacing requirements and security & privacy concerns.

¹ :ICT for Health and i2010 – Transforming the European healthcare landscape; European Commission, June 2006
Rapid Access to Data – Across the Healthcare Community

As part of the Framework approach, secure, role-based access to data and applications is provided by Orion Health's Concerto™ Clinical Portal. Concerto can be placed over multiple information systems to provide a single, seamless view of a patient's data.

Concerto acts as a centrally controlled single sign-on to multiple health information systems for clinical users across a facility, organisation or health community.

Concerto delivers simple, unified access to the best and most readable presentations of clinical information about the patient.

Concerto is designed to be easy to learn and use. It features a clear and simple graphical environment, including user-friendly icons for rapid navigation between applications.

Encourage Patient Access
Concerto can also be used to provide patients with a login to their own record, encouraging them to become actively involved in their health care, and allowing them to monitor which users have accessed their record and when.

Ensure Security and Patient Privacy
In any EHR environment, patient privacy is of critical importance. The more widely information is to be shared, the greater this issue becomes. Concerto's comprehensive security features include authentication, session management, configurable role-based access, secure storage of passwords and user activity audit logs.

Access to data within the Framework can be controlled by clinical role, physical location and the clinical user's relationship to a patient. Data can be locked and/or masked at the patient-level or individual document-level using information known about the document, e.g. sensitivity, consent status and clinical specialty.

The Clinical Integration Framework also supports peripheral authentication devices such as swipe cards, biometric devices and proximity cards.

Support For Clinical Activities and Workflow
In addition to providing integration and access to existing systems, Orion Health’s Clinical Integration Framework offers additional solutions to fill functional gaps within an organisation’s IT infrastructure. These solutions include clinical documentation, clinical orders, results reporting, and chronic disease management.

Like the rest of the Clinical Integration Framework, Orion Health’s solutions are designed to link with other information systems across the organisation to extract, contribute and update data as part of clinical workflow.
Integrate and Enhance Your Existing Information Systems

Supporting a Best of Breed Approach
Orion Health’s Clinical Integration Framework integrates with information systems from multiple vendors. This means that department and wards can use specific applications that best suit their requirements of the specialty/role, while contributing to and benefiting from the unified view of the patient created by the Framework.

Messaging Between Information Systems
Within the Clinical Integration Framework, Rhapsody™ Integration Engine manages and streamlines message exchange between hospital applications, databases and external systems. Rhapsody delivers an integration solution with the lowest cost of ownership and highest return on investment.

Industry Standards
Orion Health’s software products are used around the world to support better care and enhance the exchange of healthcare data. They are co-developed with clinicians and other healthcare professionals to ensure ease of use and functionality. Orion Health’s products support industry standards such as HL7, XML, CCOW and HIPAA.

A Future-Proof Choice for Your Healthcare Organisation
Orion Health’s Clinical Integration Framework approach offers immediate and lasting benefits to healthcare organisations:

✓ Future-Proofing Your IT Strategy: Technology in healthcare is changing fast. Organisations need to ensure that their strategy and architecture is able to absorb new applications, messaging standards, security/privacy legislation and user requirements easily and quickly.

✓ Improved User Buy-in: The framework supports a best-of-breed approach to systems: individual departments, clinics and facilities continue to use systems that best suit their working methods, regardless of system vendor.

✓ Reduced Project Costs: By utilising existing I.T. infrastructure and systems, projects can be rolled out faster and cheaper than completely replacing existing systems.

✓ Enhanced Clinician Efficiency and Patient Safety: The Framework helps to ensure that clinicians are delivered the correct clinical data at the right time, in a single unified view. Clinician time is saved and care decisions can be made based on a “holistic view” of the patient’s current condition and medical history.

✓ Enhance Existing Value of I.T. assets: Your organisation’s IT infrastructure is already delivering benefits to users. Orion Health’s Clinical Integration Framework allows you to retain existing applications while integrating them with new information system.

✓ Support different architectural approaches: The Clinical Integration Framework can support centralised, distributed or hybrid architectures for EHR, giving your organisation the technical capacity to collaborate with multiple agencies and partners who may have differing policies regarding security, integration and data ownership.
Success Stories... The Clinical Integration Framework in Action

**Hospital Universitario Son Dureta**
In partnership with Oracle and Fujitsu Services, Orion Health’s Framework is integrating and providing secure unified access to lab results, clinical orders, patient demographics and emergency department data at Hospital Son Dureta. The hospital is the largest health facility in the Balearic Islands, with 900 beds and 4,000 employees across five facilities.

**Wrightington, Wigan and Leigh NHS Trust**
Wrightington, Wigan and Leigh NHS Trust (WWL) has deployed an organisation-wide clinical workstation system using Orion Health’s Clinical Integration Framework in three months. The clinical workstation provides secure access to a unified view of electronic patient information across 35 wards, with around 1,000 registered users and up to 100 users accessing the system at any time. Operating four hospital sites, WWL has 800 inpatient beds and covers a population of 300,000 in northwest England.

**About Orion Health**
Orion Health’s easy-to-use solutions and applications improve patient care and clinical decision making by providing integrated health data in a single, unified view. By enhancing existing healthcare information systems, Orion Health’s Rhapsody integration engine, Concerto clinical portal, and workflow solutions provide healthcare workers with easy access to patient data and trends, and reduce errors and omissions by streamlining information transfer.

For more information, please visit us at www.orionhealth.com