

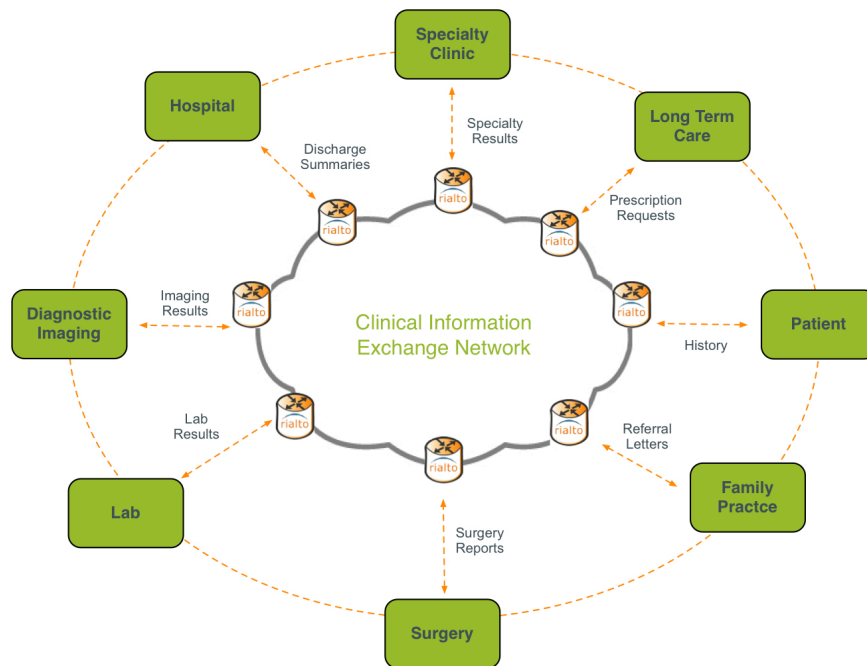


Clinical Information Exchange and Storage Made Simple

Construct Clinical Information Exchange Networks

What is Rialto?

Rialto is a software platform providing all the functionality required to construct and maintain clinical information exchange and storage networks. A Rialto-based exchange network ensures that a patient's health record is available to each healthcare participant along the patient's care pathway.



Rialto is designed to:

- Provide healthcare professionals with access to the patient's complete medical history, quickly and securely
- Connect all existing clinical information systems without needing to modify or upgrade them
- Assist specialists, diagnosticians and general practitioners collaboration by fostering information sharing
- Manage massive amounts of patient information in all types of formats (imaging and non-imaging)
- Scale to meet the growing demands of evolving healthcare from hospital collaboration with referring physicians to regional health information exchanges with 100s of participating institutions
- Empower patients to participate in their own healthcare

Rialto's Benefits

Rialto is a software platform designed to construct and maintain clinical information exchange and storage networks. Rialto indexes all patient health information and ensures the patient health record is available to each healthcare participant along the patient's care pathway.

- **Provides a simple interface for clinical information exchange.** Rialto handles all underlying complexity required to enable participation in the exchange network
- **Insulates participants from evolution of the exchange network,** thereby allowing incremental development of the exchange network. As the exchange network evolves over time and new participants are added, existing participants can continue seamless use of the exchange network
- **Highly scalable.** Built upon industry open standards such as IHE XDS for interoperability, Rialto's open architecture scales to solve current connectivity problems, while accommodating network growth as participants are added over time
- **Leverages existing investments.** Rialto facilitates communication with existing legacy systems, as well as leveraging systems that comply with modern open standards
- **Provides data persistency using object-based storage,** eliminating the need for costly hardware and reducing reliance on expansive middleware, SAN or NAS bases storage technologies while enabling scalable and reliable content storage
- **Captures complete audit trails,** and allows full analysis of network usage
- **Provides network-wide configuration and monitoring tools** through a well-designed web interface, ensuring that administration is simple and straight-forward
- **Ensures compliance with privacy legislation** and adherence to stringent security and privacy requirements. Access to information is secure and patient details are protected

The Rialto Platform

Designed with open-standards, scalability and object-based storage in mind, the Rialto platform consists of modular software components that enable a tailor-made approach to construct the most optimal deployment solution for any given task. Rialto is compliant with the latest releases of IHE Cross-Enterprise Document Sharing (XDS.b) and IHE Cross-Enterprise Document Sharing for Imaging (XDS-I.b) Technical Frameworks and offers the following advantages:

- **Integration with third party services** based on standards or web services through Rialto's rich API
- **Common approach** to serviceability and manageability across all platform services
- **Flexible deployment** on servers, routers, or as embedded components in an application
- **Eases interoperability** between information systems, data formats and terminologies
- **Modular choice of services,** to tailor the solution to meet partner and customer needs
- **Common platform services** for security, transformation and routing across all ready-made solutions

Rialto Ready-Made Solutions

Rialto's ready-made solutions are built on the Rialto platform for clinical information exchange and storage. Each ready-made solution provides a comprehensive set of capabilities with a specific purpose in mind. All ready-made solutions inherit the Rialto platform DNA for open-standards compliance, common services, serviceability and manageability. Together these ready-made solutions provide a complete suite of products to construct a clinical information exchange and storage network.



Rialto Connect is focused on XDS-enabling existing clinical information systems. Rialto Connect allows existing systems to participate in XDS based clinical exchange networks, expanding their ability to publish, discover and retrieve information to and from these networks. Rialto Connect facilitates a patient-centric view of the complete medical record with no disruption to existing healthcare processes and workflows.



Rialto Navigator is an open standards-based, ultra-thin web-based viewing application for health professionals to discover, retrieve, and view clinical information from an XDS-based exchange network. Rialto Navigator can be used to access all types of clinical documents that are not natively supported by existing systems. Rialto Navigator can be embedded in existing applications or run standalone.



Rialto Toolkit offers a comprehensive SDK to those vendors who are looking to embed XDS more tightly into their application. Rialto Toolkit allows vendors to build XDS publishers and consumers using the Toolkit's Java API and web services.



Rialto Vault is a clinical imaging and document repository that adds storage to a clinical information exchange network. Rialto Vault uses object-based storage technology to provide highly reliable and secure storage on low cost hardware, eliminating the need for SAN or NAS technologies. Rialto Vault is a compelling choice for providers looking to consolidate their data across applications and healthcare facilities.



Rialto Discover provides for the indexing of patient and clinical information at a regional, state or national level. Rialto Discover provides a master patient index that can manage the links between patients from multiple enterprises. Rialto Discover also includes an index of all clinical documents or images that are available for linked patients. Finally, Rialto Discover provides for a repository for auditing all access to a patient's health information.



Rialto: A Proven Solution to Ensure Secure, Reliable and Accurate Exchange of Patient Information

Rialto establishes a clinical information exchange network that indexes all patient health information, ensuring the entire patient health record is available to each healthcare participant along the patient's care pathway.

Key features

Common Services

- Security, Routing, Transformation (e.g. supports HL7 V2, HL7 V3, DICOM Tag Morphing)

Supported Protocols

- HL7 V2, HL7 V3, DICOM, ebXML, SOAP, RESTful Web Services

Communication Services

- Audit Repository, Provider Registry, Patient Registry, Document Registry, Document Repository (HL7 CDA, PDF, plain text, image manifests), Imaging Document Source, (Imaging) Document Consumer (WADO, RIDS)

Platform

- OS: LINUX, Solaris, MS Windows
- DBMS: Oracle, MySQL, PostgreSQL
- Hardware: Dell, HP, IBM, Sun, WYSE, Cisco AXP



	Rialto Connect	Rialto Navigator	Rialto Vault	Rialto Discover	Rialto Toolkit
Document Consumer	✓	✓			✓
Imaging Document Source	✓		✓		
Document Repository			✓		
Document Registry				✓	
Patient Registry				✓	
Provider Registry				✓	
Audit Repository				✓	
Routing	✓		✓		✓
Transformation	✓		✓		✓
Security	✓	✓	✓	✓	✓

Connecting disparate pieces of the patient's medical information can be achieved only through collaboration between vendors and healthcare institutions

Learn more about Rialto at www.karoshealth.com



Clinical Information Exchange and Storage Made Simple

Karos Health is focused on elevating the quality of patient care by enabling the sharing and storing of clinical information

Karos' Rialto platform empowers healthcare enterprises to enable cross-community access to information, facilitating collaboration between healthcare providers and patients

Rialto is based on open standards that ensure safe and secure handling of patient health information and is backed by a team with decades of experience in healthcare interoperability

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