Orchard Software’s enterprise-class laboratory information system, Orchard® Sequoia™, incorporates advanced tools and decision support to measure performance, improve productivity, and generate valuable business analytics. Sequoia is designed to support high volume, complex laboratories, incorporating the diagnostic innovations concurrent with the changes taking place in healthcare.

**Supporting Enterprise-class Patient-centered Care & Quality Outcomes**
Laboratory data is essential to delivering accountable care—providing patient-centered care with an emphasis on quality outcomes at a lower cost. Orchard Software understands this and has focused its more than 20 years of laboratory industry knowledge on development of an enterprise-class LIS. Orchard Sequoia is designed with the utmost scalability to accommodate large volumes of laboratory testing across multiple laboratories and departments performing clinical, microbiology, molecular, and pathology testing.

**Cloud-enabled Enterprise-class LIS with Microsoft® SQL® Server Architecture**
Orchard Sequoia utilizes a Microsoft SQL Server database to provide high volume, high velocity solutions for the increasing requirements of the laboratory. Sequoia data can be mined using SQL Reporting Services or Crystal Reports without exposing the Sequoia production database. The Sequoia platform is cloud-enabled, allowing access to data via a browser-based user interface, creating a continuous (Internet-enabled) online connection, from anywhere, anytime.

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**Integrated Diagnostic Network**

- Hospital
- Hospital
- Hospital
- Hospital
- Reference Lab
- Clinic
- Clinic
- Speciality Clinic
- Nursing Home
- Remote Location
- Remote Location
- Remote Location
- PO
- PO
Proven Interface Engine Simplifies Interoperability & Integration

Within Sequoia, Orchard is implementing a well-established integration engine that supports HL7 standards and ensures continuous connectivity to address the evolving HL7 environment. Additionally, Sequoia puts this integration power directly in the hands of the user. The Sequoia platform includes an interfacing mechanism that allows healthcare organizations to build their own host interfaces, eliminating the wait time, frustration, and cost of a vendor-developed interface.

Transform Data into Valuable Laboratory Analytics

Available on a real-time basis, use Sequoia to track key performance indicators that support future business decisions and contribute to consistent and superior service for providers and patients. Performance analytics from Sequoia’s data collation can help evaluate progress toward strategic goals as well as supplement EHR systems that may have limited capability for compiling laboratory analytics. Data from Sequoia can be used to populate a data warehouse to allow the coordination of information from multiple sources, giving data analysts access to information across all information systems.

Sequoia’s Real-time Dashboards

Orchard Sequoia provides a robust user interface that follows in Orchard’s tradition of giving the end user the tools to mine their own data and access the information they need. Users may create detailed, real-time reports using the Sequoia information dashboard.

Create valuable, real-time reports using Sequoia’s advanced report and dashboard tools.
**Business Process Logic Running Rules that Reduce Errors & Increase Efficiency**

Orchard’s broad and diverse customer base has made Orchard’s lab systems the leaders in flexible, rules-based, decision-making support technology that improves workflow efficiency and reduces errors. Using business process logic to drive advanced configurable rules that aid in decision making throughout the testing and resulting process, Sequoia enables a patient-centered approach to rule design and implementation that promotes accurate decisions. Sequoia’s leading edge, logical rule sequencing and sophisticated filter options make rule design intuitive, easy to understand, and simple to build.

**Enhance Test Utilization**

The shift to value-based healthcare has focused on eliminating waste and promoting efficient use of services. Because of this, test utilization has become more important. Orchard’s decision-support rules allow users to work closely with ordering providers to eliminate obsolete testing, avoid unnecessary test combinations, and eliminate non-value added tests, contributing to overall improvements in the quality of patient care.

**Instrument Interface Tools Provide Seamless Integration**

Instrument interfaces, essential to the laboratory’s collection of data, are one of Orchard’s strengths. Orchard Sequoia offers a multitude of helpful ways to monitor and support analyzer interface processes, including maintenance reminders and documentation, tracking of interface transmissions, creation of load lists, and a live dashboard to monitor interface statuses.

**Sophisticated Sample Tracking**

The sample tracking features in Sequoia organize and track the flow and storage of laboratory samples and specimens throughout the testing process to facilitate quicker, easier retrieval. At order entry, samples are directly associated with the order, integrating sample tracking into your system. This automatically creates a complete sample audit trail that includes tracking of expiration dates.

*Come see the “biggest tree in the Orchard,” Orchard Sequoia, at our trade show booths at AACC and HIMSS.*
Advanced Document Management Support
Create a paperless lab where patient records are electronically filed, easily accessible, and readily available to view, print, fax, email, or web-deliver. The automated document-linking interface eliminates the process of manually linking documents or images to patients, orders, or QC graphs and allows you to add descriptive text to reports.

Configurable Advanced Security Options Throughout
Orchard Sequoia has highly configurable advanced security options embedded throughout the software. System administrators can track user actions, regulate password security setup, and control access to specified areas within the system. Integration with a facility’s existing Lightweight Directory Access Protocol (LDAP) infrastructure secures the application and provides IT staff with easy maintenance of security, users, and rights.

High-availability & Disaster Recovery Integration
SQL Server AlwaysOn technology, available in the Microsoft® SQL Server Enterprise Edition, offers proven solutions for high availability and disaster recovery. The SQL AlwaysOn architecture, combined with Windows Failover Clustering, provides a solution to support read-only local replicas and remote hosted Disaster Recovery sites to ensure high availability of the Sequoia database.

Technical Support 24/7/365
Orchard’s Technical Support department is available via telephone 24/7/365 from our headquarters located in Carmel, Indiana. Technical assistance from our highly proficient support team is available whenever you need guidance. Also, with any of our support options, software upgrades are included and available as they are released for installation at your convenience.

Orchard Software: Know You Picked the Very Best
Orchard Software is dedicated to the laboratory and continues to innovate and develop lab system solutions concurrent with the needs of the ever-changing healthcare market. Orchard’s success comes from our commitment to the laboratory and on the changes taking place in healthcare. We partner with our customers to develop, deliver, integrate, and support the very best laboratory information systems on the market.
From the seeds sown in our first installation in 1993, Orchard Software continues to grow and develop a comprehensive suite of lab information system solutions that empowers the lab. Simply said, we’re the best, and that’s why laboratories of all shapes and sizes are harvesting the power of Orchard.