Blue Iris® Core: Technology Overview

Introduction

The Core is the heart of the Blue Iris system. The Core resides on a central server to which any desktop PC or mobile computing device can connect. All data integration and application processing occurs on the central server. The Blue Iris client software packages a rich, clinician-friendly interface in a lightweight container for on-demand distribution over local and wide area networks, including the Internet.

Each layer of Blue Iris is built on mature technology that is designed for interoperability and reliability. The application integration in Blue Iris spans a full technology generation from legacy systems to leading-edge Web services. This breadth of compatibility makes Blue Iris easy to install into any existing IT environment and lowers the total cost of ownership.

Enabling Technology

Macromedia® Flash™ MX

The Web-based Blue Iris client is built with Macromedia's rich user interface technology, Flash MX. This pioneering use of Flash combines the benefits of a rich user experience with the convenience of a thin client application that runs on virtually any platform—Windows, Macintosh, Linux, and so on. The Flash Player is already installed in 98% of the world's Web browsers so compatibility is assured. Flash is designed to work across 28.8k dial-up or broadband connections and every speed in-between.
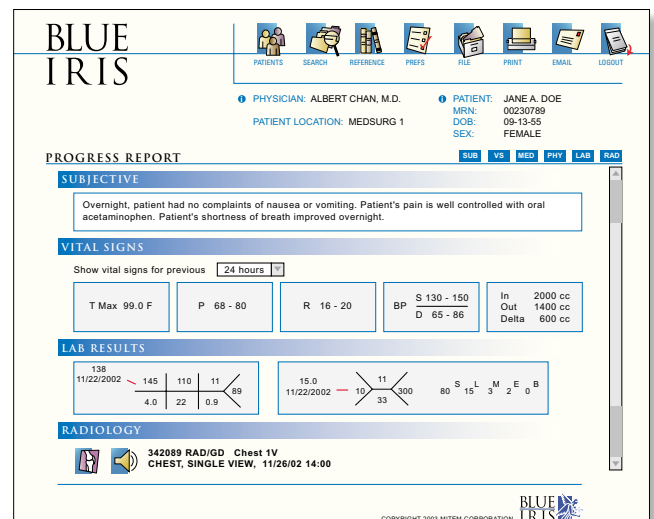
Macromedia® JRun™

The Blue Iris server-side applications are written in Java and execute on a JRun application server. JRun, which was first released in 1997, is a mature and robust platform with full Java 2 Enterprise Edition (J2EE) support. JRun implements the complete J2EE platform specification, including support for Java Server Pages (JSP), Servlets, Enterprise JavaBeans (EJB), Java Message Service (JMS), and other Java and Web services APIs. This 3-tier architecture distributes processing and load across the system, enabling each tier to fully exploit the native capabilities of its platform.

Mitem*View*®

The Blue Iris Core incorporates MITEM's renowned application integration technology—Mitem*View*. This platform is the result of seventeen years of research, development, testing and customer feedback—producing one of the most sophisticated and stable integration products available. Mitem*View* is the industry's leading solution for real-time, non-invasive integration with legacy systems. In particular, Mitem*View* is known for having an enormous breadth of connectivity and an unparalleled record of achievement in high-volume, mission-critical environments.

Blue Iris makes full use of the Flash technology to create rich, intuitive screens like this partial view of a True SOAP Note.

Enterprise-wide Integration

Legacy System Platforms

Blue Iris can provide real-time, bi-directional integration with applications running on the following platforms:

- IBM mainframe
- IBM AS/400
- Data General
- HP3000
- Digital VAX
- Unix (character-based)
- Tandem mainframe
- Bull mainframe
- Unisys mainframe
- ...others

Hospital Information Systems

- MEDITECH MAGIC
- McKesson Series 2000
- McKesson STAR
- McKesson HealthQuest
- Siemens INVISION
- Siemens MedSeries4
- ...others

Messaging

- HL7
- XML over HTTP
- IBM WebSphereMQ
- TIBCO ActiveEnterprise
- ...others

Database Access Services

Blue Iris can use high performance type IV JDBC drivers to access data from Oracle, Microsoft SQL Server, Sybase, DB2, and Informix databases.

Web Services

Blue Iris can use the functionality of the J2EE platform to support open web services protocols such as SOAP, WSDL, and UDDI.

Java Messaging Service

Blue Iris can use the functionality of the J2EE platform to create a durable and transactable JMS 1.02b-compliant provider that supports both point-to-point and publish/subscribe synchronous and asynchronous messaging.

Technical Specifications

Minimum Client and Server Requirements

Blue Iris Client

Windows

Platform	Browser
Windows 95	Internet Explorer 4.0 or later, Netscape
Windows 98	Navigator 4 or later, Netscape 6.2 or later,
Windows Me	with standard install defaults, AOL 7, Mozilla 1.0 or later, or Opera 6
Windows NT	Internet Explorer 4.0 or later, Netscape
Windows 2000	Navigator 4 or later, Netscape 6.2 or later,
Windows XP	with standard install defaults, Compuserve
Windows XP TabletPC Edition	7 (2000 & XP only), AOL 7, Mozilla 1.0 or later, or Opera 6

Macintosh

Platform	Browser
System 8.6	Netscape plug-in works with Netscape 4.5
System 9.0	or later, Netscape 6.2 or later, Microsoft
System 9.1	Internet Explorer 5.0 or later, Mozilla 1.0
System 9.2	or later, or Opera 5
OS X 10.1 or later	Netscape plug-in works with Netscape 6.2 or later, Microsoft Internet Explorer 5.1 or later, AOL 7, CompuServe 7, Mozilla 1.0 or later, or Opera 5

Linux

Platform	Browser
RedHat 7.3 or later	Mozilla 1.1 or later

Other devices
Microsoft PocketPC
Nokia 9200 Communicator

Blue Iris Server

Minimum System Requirements
Intel Pentium III processor or equivalent
1 GB RAM
100 MB free disk space

Operating Systems Supported
Windows NT and Windows 2000
Unix support planned for H2 2003

MEMBER 2003
ANSI Accredited
Standards Developer

mitem