

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.

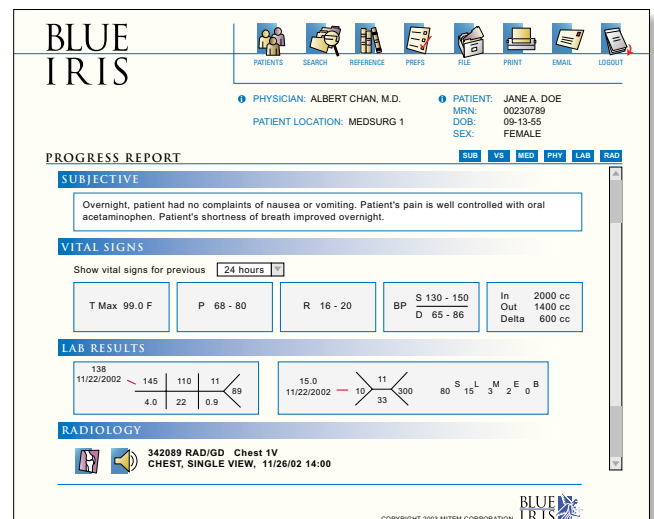
Macromedia® JRun™

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.

MitemView®

The Blue Iris Core incorporates MITEM's renowned application integration technology—MitemView. 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. MitemView is the industry's leading solution for real-time, non-invasive integration with legacy systems. In particular, MitemView is known for having an enormous breadth of connectivity and an unparalleled record of achievement in high-volume, mission-critical environments.

BLUE IRIS

PATIENTS SEARCH REFERENCE PREPS FILE PRINT EMAIL LOGOUT

PHYSICIAN: ALBERT CHAN, M.D. PATIENT: JANE A. DOE
 MRN: 00230789
 PATIENT LOCATION: MEDSURG 1 DOB: 08-13-55
 SEX: FEMALE

PROGRESS REPORT SUB VS MED PHY LAB RAD

SUBJECTIVE

Overnight, patient had no complaints of nausea or vomiting. Patient's pain is well controlled with oral acetaminophen. Patient's shortness of breath improved overnight.

VITAL SIGNS

Show vital signs for previous 24 hours

T Max 99.0 F	P 68 - 80	R 16 - 20	BP S 130 - 150 D 65 - 86	In 2000 cc Out 1400 cc Delta 600 cc
--------------	-----------	-----------	-----------------------------	---

LAB RESULTS

138 11/22/2002 4.0	145 110 22	11 11 0.9	15.0 11/22/2002 10	11 33 300	80 S ¹⁵ L ³ M ² E ⁰ B
--------------------------	------------------	-----------------	--------------------------	-----------------	---

RADIOLOGY

342089 RAD/GD Chest 1V
CHEST, SINGLE VIEW, 11/26/02 14:00

BLUE IRIS
COPYRIGHT 2003 MITEM CORPORATION

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
Windows 95
Windows 98
Windows Me

Windows NT
Windows 2000
Windows XP
Windows XP
TabletPC Edition

Macintosh

Platform
System 8.6
System 9.0
System 9.1
System 9.2

OS X 10.1 or later

Linux

Platform
RedHat 7.3 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

Browser

Internet Explorer 4.0 or later, Netscape Navigator 4 or later, Netscape 6.2 or later, with standard install defaults, AOL 7, Mozilla 1.0 or later, or Opera 6

Internet Explorer 4.0 or later, Netscape Navigator 4 or later, Netscape 6.2 or later, with standard install defaults, CompuServe 7 (2000 & XP only), AOL 7, Mozilla 1.0 or later, or Opera 6

Browser

Netscape plug-in works with Netscape 4.5 or later, Netscape 6.2 or later, Microsoft Internet Explorer 5.0 or later, Mozilla 1.0 or later, or Opera 5

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

Browser

Mozilla 1.1 or later



MEMBER 2003
ANSI Accredited
Standards Developer