



## Developed the entire CCIMS application to be run on Windows NT and Windows 2000

CASE STUDY | APPLICATIONS | HEALTHCARE

### Highlights

Mphasis ported the entire CCIMS application while enhancing and modifying few features of the system in parallel, so that the ported and enhanced version could be marketed more aggressively with the system being able to run on Win NT and Win 2000. Since the language used for the front-end application was chosen to be Java, this gave an added advantage of getting exactly same look and feel on different platforms

### Client Type

World leader in anesthesia and critical care field

### Industry

Health care

### Type of Work

Ported CCIMS application; also enhanced and modified a few features

### Skill Set

Tools used: JBuilder, MS VC++ as IDEs, VSS for Version Control, CSI and CII for Configuration Management

Technologies: Java 1.2, C, C++, VC++, XML, Sybase 11.x.x, Object 1.

Platforms: IBM OS 2, Windows 2000 and NT.

### Client quotes

"We are thankful to Mphasis Management, Leads and Developers for the developed solution, which has made us one of the leaders of the Critical Care Solution provider in Europe and whose CCIMS solution is used in all major hospitals across Europe."

Program Manager

## Mphasis ported the entire CCIMS (Critical Care Information Management System) application while enhancing and modifying features of the system

### The Client

One of the world's leaders in anesthesia and critical care field

### Objectives

To strategically increase the area of operation by porting the entire CCIMS (Critical Care Information Management System) application to run on Windows NT and Windows 2000 platforms, this application was earlier running on OS/2 platform

### Challenges

- To grasp the essence of a new and a rarely used programming language
- To restructure/redesign in terms of UI and functionality
- To design new Java UI components and customize it as per specific requirements of the customer
- To gather critical care domain knowledge

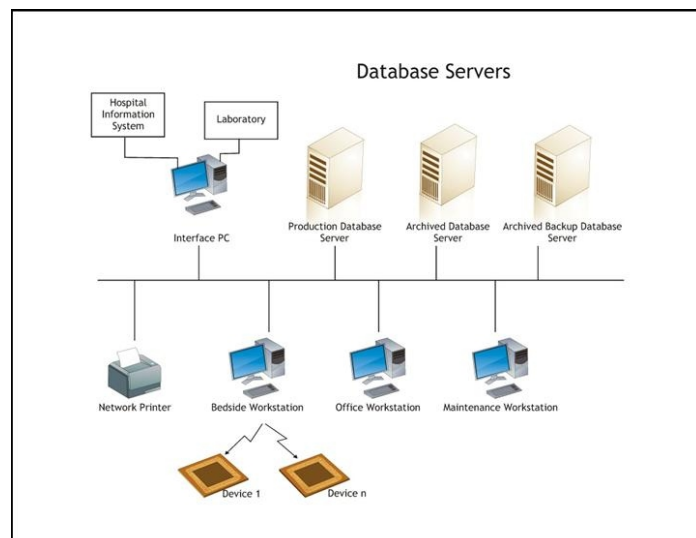
### Solution

CCIMS application uses 2-tier (conventional client-server) architecture, where the entire database server layer is designed to reside on Sybase 11.x, where as the various client systems and modules are ported / redesigned using C/C++/VC++ and JAVA

The project evolved with the entire porting and enhancement being done in three major phases.

Phase 1: Porting of Base Processes and 36 driver dlls using C/C++

In this phase the backbone of the application, which is also known as Base Processes and 36 driver dlls were ported using C/C++/VC++.



The above picture depicts the product architecture



### Phase 2: Porting of Configuration Application using Java 1.2

In this phase, the existing module was ported and enhanced using JAVA programming language version 1.2; this included the designing of new Java UI components and customizations. Approximately 250 classes and 100+ UIs were re-written in this phase.

### Phase 3: Porting of Patient Application using Java 1.2

In this phase, the existing Patient module was ported also enhanced using JAVA programming language version 1.2; this included the designing of new Java UI components and customizations, approximately 300 classes and 150+ UIs re-written in this phase

### Benefits

Mphasis' domain knowledge which assisted in starting the project within a short time of receiving the requirements and Mphasis' expertise in architecting the whole solution led to a new completely automated system to offer to their customers. The project was delivered on time in line with the Customer's Market Strategy.

### About Mphasis

Mphasis is a leading Applications, Infrastructure Technology, and BPO services provider. The company delivers real improvements in business performance for clients through a combination of technology know-how, domain and process expertise. With currently over 36,000 people, Mphasis services clients in Financial Services, Manufacturing, Healthcare, Communications, Media & Entertainment, Transportation & Logistics, Energy & Utilities, Consumer & Retail, and Governments around the world. To know more, visit [www.mphasis.com](http://www.mphasis.com).

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