



# Cygnnet Infotech

## Customer Solution Case Study

### Overview

**Industry :** Health Care

**Customer Profile :**

The Client has been a major provider of information systems and support for the dialysis industry for 30 years. The company provides solutions for the dialysis field for both reimbursement and clinical information management as an integrated product, for which they supply consultation and full support.

**Country:** USA

**Business Situation**

The Client needed assurance for the system. The system comprised of multiple complex modules that needed to be validated without any core documents.

**Solution**

Cygnnet Infotech's approach to advanced testing focused on the reduction in cycle time. We achieved it successfully by carrying out the manual and automated functional testing on the system in record time.

**Benefits**

- Overall reduction in cost of testing
- Increased efficiency of testing due to repeatable automated tests and less manual intervention
- Early identification of issues in test cycles

Cygnnet Infotech's approach to advanced testing focused on the reduction in cycle time. We achieved it successfully by carrying out the manual and automated functional testing on the system in record time.

Client is the leader in providing comprehensive information management services to the field of renal dialysis treatment and management.

Client's mission is to help dialysis facilities to be more profitable while delivering quality care.

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The end result provided a considerable Increase in Revenues



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### Software and Services

- **Quality Center** for Bug Tracking, Execution and writing test scripts
- **SQL Worksheet** – Used to verify integration of various modules by accessing database.

### Technical Description

#### Architecture

The system employed client/server architecture, with a Windows-based front end and an Oracle database on the server side.

#### Technical Description

The system was written in PowerBuilder and runs across various Microsoft Windows operating systems.

The server application runs an Oracle database and provides a wide range of capabilities, such as triggers, stored procedures, and transaction processing (rollback). The server can run either Windows 2003 server or Unix as an operating system. Its size (if on-site) will depend on the user's requirements. A fully configured server would include multiple processors, fault-tolerant features, and a high-speed hard disk array.

#### Interfaces

The client has developed an interface capable of integrating virtually any database currently in use in dialysis with their suite. While initially intended to integrate systems such as the Fresenius FDSO8, the interface (which is based on HL-7 protocol) has been adapted to similar systems provided by other manufacturers, as well as other medical databases, including laboratory and hospital systems.

### Situation

The Client needed assurance for the system. The system comprised of multiple complex modules that needed to be validated without any core documents.

### Solution

To meet the client requirement our testing team started understanding the system. Understanding the system was a complete challenge in itself since no proper functional flow documentation was their and the domain was also new.

To ensure each application was as accessible as possible, a testing environment was created, so that each application could be tested under different conditions and with assistive technology.



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Complete Testing Process was implemented right from Test Planning to Test Case Generation, Test Log Maintenance.

Multiple types of testing were performed

- Functional
- Build Testing and
- Smoke Testing

We also accessed the Database to verify integration of various modules. We also verified the Integration of FDS08 with the system. FDS08 use HL-7 protocol which is used share information between different healthcare systems

### Benefits

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### Cygnnet Infotech

At Cygnnet Infotech, our approach is extremely customer oriented and we aim at providing innovative software solutions to our customers. It reflects in our approach, our thinking, and the manner in which we deal with our clients and the world at large. Here is why you should partner with us:

- Cygnnet Infotech is an ideal choice for a strategic alliance. Since our inception, we have gained a wealth of expertise by implementing, upgrading, customizing, and maintaining business and technology milieu.
- Three mainstays of our Services are **Client Satisfaction, Transparency, and Quality**. By engaging our services, you move a step closer to Microsoft skill sets, well-established project management techniques & integration capability, geographic reach
- At Cygnnet Infotech we provide business oriented approach by utilizing the approach and insights of service providers and specialists from across the globe

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