



## Access Infotech Pvt Ltd

An ISO-9001-2008 Certified Organization

### The VLC MIGRATION FOR THE COMPTROLLER & AUDITOR GENERAL OF INDIA (CAG) CASE STUDY



The Comptroller and Auditor General of India discharges his multifarious duties through the Indian Audit and Accounts Department. The Department consists of about fifty thousand employees and is functionally organized into 133 specialized formations throughout the country.

### Customer Overview

The Comptroller & Auditor General of India had expressed their interest to upgrade their VLC and GPF in its Accounts & Entitlement offices across all its 39 offices located in various states of India. The up gradation was planned with a motive to make its application web-enabled so that it could be easily hooked with the latest technology as well as leverage all its advantages.

### Background

The department was having a two tier accounting system running on Oracle 8i with SCO UnixWare 7.1.x operating system. The software was designed using Developer 2000 and was being operated on windows client. This application has been in use across all the sites since last ten years. This application took almost 10,000 man day's effort per site for development and its implementation in order to ensure fault free processing VLC accounts.

### Business Challenges

- In order to ensure smooth transition to the latest technology it was important to preserve the robust, time-tested business logics embedded in the VLC & GPF application.
- In fact it was widely apprehended that at this stage if an entirely new application is designed using the latest technology it was a herculean task to pool in the same. Massive effort was spent in the initial days of the existing application and it might take three years to stabilize a new Application.
- Therefore in order to web-enable all the offices at the earliest, the CAG office opted to upgrade the existing application using forms & reports 11g along with 11g database.

- The condition hence put forth by the CAG office was that the vendor needs to ensure during migration / up gradation that the user interface look & feel and user operations at front end also remain the same.
- The tentative time frame specified for ensuring completion of desired specification was set as 26 weeks for each site housing VLC & GPF application and 17 weeks for each site housing VLC application. All the sites had to be upgraded parallelly so that the same did not affect the country's annual accounts generation process.
- The timer frame now set forth for the shotlisted vendor teams was almost 1000 man days per site which was almost 1/10th the actual time spent to design and implements the existing application.

## Challenge overcome

Access Infotech was very fortunate to bag the VLC II Upgradation project for CAG. This was one of the biggest projects executed by us in a record time of Six months. The project Involved delivering the solution across 16 states of India spanning 24 locations. In fact this project has enabled us to mark presence at national level.

## The Success Recipe

- For any successful project execution we need the following ingredients Drafting a viable execution plan
- Rightly sequence the milestones listed in project Plan
- Ensuring that every Project milestone is further exploded into its constituent tasks so that no scope of ambiguity is left behind. Tasks listed are further well penetrated to the stakeholders of each stage of project execution .
- Bringing on Board the right Task force
- Imbibing the right skills amongst the team members
- Defining and clarifying the execution boundaries for each team member
- Ensuring that the methods of delivery and goals to be achieved should be well penetrated to each team member
- A Die hard Project Management Team who has to

## Business Benefits of a Web-Enabled Application

### Ease of maintenance

Client/server applications require installation and maintenance of software on every client machine. The multi-tier architecture of Oracle 11g Forms & Reports Services means that you can centrally manage the installation and configuration of your application.

### • Accessibility

When an up gradation or patch to the software is required, simply do so on the central server, and all users will be immediately affected. This negates the need to maintain every single user's machine when an upgrade or patch is available, or a change in configuration is needed.

### • Platform independence for clients

Any user with a browser, on any platform, can run a Forms application. Compare this with client/server, where each client machine needs to be installed and configured before they can run the application.

### • Cost effectiveness

This adds up to cost effectiveness as fewer administrators are needed to maintain your application, and yet more users can be reached. A web application has the ability to operate through proxies and firewalls, thus giving an even broader audience access to your application.

### • Single Sign-On

Forms applications can take advantage of Single Sign-On, which means your users only need one username and password, and only need logon once. In addition, your Forms application on the web can take advantage of other technologies, such as Java, to integrate with other systems (e.g. Web Services) or enhance the functionality of Forms.

### • Reduced network traffic

The One of the biggest advantage of running Forms on the web, though, is the reduced network traffic between the client and the middle tier, compared to the client/server architecture. This is a great benefit, particularly for companies with low bandwidth and/or high-latency networks.

## Tasting Success

*“Excellence is an outcome of Good Intentions and the right ways to do Work”*

Today when one looks back and recalls the entire span of project execution, we feel extremely proud to claim that:

- We possess a Committed Team always motivated to deliver consistently.

constantly monitor the timelines and take corrective action whenever required.

- Ensuring the right infrastructure where the team could work tirelessly and deliver with ease.
- Equip the team with the right kind of tools, so that each member could deliver uniformly as desired standards
- Ensuring round the clock basic services in order to ensure that the team was always comfortable and refreshed
- Identify and appoint patient and skilled Co-ordinators who were in constant touch with the onsite team to ensure that they should not miss their timelines even by a single day. If required they might have to personally visit sites to ensure all hurdles were tackled on time
- Preparing our Site Champions to start onsite execution methodically and confidently. Making them undergo various test runs for timely delivery
- Identify and prepare a motivated In-House support team who stayed connected with all the onsite team members and assisted them with quick resolutions for new & typical problems faced onsite
- Ensure consistent checking of the tasks attempted by the in-house team and observing its behavior in the main application – The role of the Quality control and Delivery Team
- To organize timely delivery of well drafted documentation and delivery report templates. These were desired to convey complete clarity to the end-user for handling the Software

- It's widely claimed and acknowledged by our Customers, that the assignments undertaken by us are successfully and diligently executed.
- We had done the functional QA along with the Technical QA, at the time of migration at the Stage 2 itself. This helped us to have full confidence in the working of the migrated application. It helped us to penetrate better in the filed.
- A strict Daily weekly review mechanism was practiced by the Top management. The Project team was updating daily, the status of the same.
- At any point of time during the Project, we were aware of the Status of the overall picture and customer's committed deadlines.