



ClearCase

CASE STUDY
ClearCase

DELIVERED TO
L&T Technology Services



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Aurelius



ClearCase Delivered to Client L&T **Technology services**

Client: **L&T Technology services**

Industry: **Engineering and Technology**

A subsidiary of Larsen and Toubro, L&T Technology Services is a global organization which conducts and provides research and development engineering services to organizations. Based out of India L&T Technology Services also have their offices in Edison, New Jersey, Munich and a subsidiary called Esencia in San Jose, California. The organizations stocks are exchanged in the National Stock Exchange and Bombay Stock Exchange of India.

Founded in 2009 as L&T Integrated Engineering Services, L&T technology services is currently one of the nine main subsidiaries of the parent company. The organization has developed a set of personal safety gear in 2017, which are based on the cloud-enabled technologies which includes helmets, gloves, jackets and shoes which integrate sensors which can capture performance of the wearer and send it across to a centralized cloud data base. The company has also recently been upgraded to group A of the Bombay stock Exchange which consists of about 300 selected stocks.

The organization is engaged in technology, engineering, construction, manufacturing and financial services worth 17 million USD and operates in over 30 countries all over the globe. The company has acquired numerous patents in



major industries including transportation, industrial products, Telecom, Medical Devices and the Process Industry.

The company also works in advanced technological domains including product lifecycle management, engineering analytics, power electronics, M2M connectivity and Internet of Things.

Technology: ClearCase

Domain: Software Configuration Management

ClearCase is a set of computer software tools developed by IBM which provide support to software configuration management of source code and various other software development assets. ClearCase also provides support of design-data management of artifacts of electronic design which enables the co-development of hardware and software. With ClearCase, the users get revision control and also the basis for configuration management for various large and medium sized businesses. The users can accommodate various projects which may include hundreds and thousands of developers.

Two kinds of configuration management models are supported by ClearCase.

1. Unified Change Management
2. Base ClearCase

UCM architecture provides an inherently out-of-the-box model for configuration, while base ClearCase provides the basic infrastructure while both can be configured as per need to support the wide variety of needs of the user and clients. ClearCase uses the RDM Embedded database from Raima and is



essentially an individual database called as Versioned Object Base. A set of interfaces with accompanying tools are used to manage the physical system of the database and requires Database administrator skills. A very unique feature of ClearCase is its MultiVersion File System which provides proprietary network file system which can be mounted on the VOB as a virtual file system using dynamic view features.

Challenges Faced By the client:

L&T Technology Services is a relatively young organization which has created a strong foothold in the engineering and technology industry with their continuous efforts in the development of technologies and products with sophisticated technological systems. Providing services in the domain of engineering and technology L&T Technology Services has been responsible for providing technology services across the globe in the software development and configuration domain. ClearCase software configuration tool is currently the leading tool for performing configuration management of software systems. L&T Technology Services needed ClearCase tool in order to deliver services in the domain of software development and software configuration management which is a very essential part of the entire Software Development Lifecycle Process.

In order to provide services through ClearCase tool, L&T technology services required a workforce which is highly proficient in the tool so that they can perform the various implementation and troubleshooting procedures for their



client. Before the solution was delivered, the organization was having a tough time understanding the various concepts of configuration management as implemented through ClearCase software tool. ClearCase software tool requires comprehensive understanding of not just the basic concepts of software configuration management but also the various tools and features of ClearCase which can implement these concepts. Being a technologically sophisticated tool it is not entirely possible to get proficient in the tool without guidance and experienced knowledge delivery.

The client required in depth and comprehensive guidance in the domain of software configuration management as implemented through ClearCase in both operational and functional aspects along with hands on practical knowledge. The client faced the risk of losing revenue and client base owing to the inability to work with ClearCase and provide services of software configuration management and development.

Why Aurelius

In need of proper and comprehensive guidance in ClearCase and develop service models to be delivered to their clients, L&T Technology Services approached Aurelius Corporate Solutions to develop consultative insourcing solutions which could help their organization's workforce in being empowered to work with ClearCase and develop solutions. Aurelius was instrumental in developing the said insourcing solution from scratch as per the exact needs and requirements of the client with continuous to and fro information and data exchange between Aurelius and the client. The Aurelius team was able to understand the exact end requirements of the client which were global in nature and consequently source a



subject matter expert which had global experience in the domain of ClearCase and Software Configuration Management to ensure that the client is able to gain the knowledge resources and information which can help them construct service providence models which help them generate revenue and grow their client base.

Aurelius is able to provide legacy integration in their solutions owing to the huge knowledge database and industrial ties which the company has inculcated over the years and uses it to develop its insourcing solutions and have it delivered through equally knowledgeable subject matter experts. The aim is always to deliver the knowledge and experience to the client's workforce in a manner that they become industry ready to start putting their knowledge to use and implement it in their organization immediately after solution completion.

Apart from theoretical sessions, the solution provided in-depth and extensive practical hands on sessions and query solving sessions under the guidance of the subject matter expert. It was made sure that the workfore is able to build complete pipelines using ClearCase to deliver software configuration management services to their clients.

The solution came with complete on shore and offshore support to the client along with continuous support of Aurelius after the solution was completed to keep the client updated in the various new features and upgrades of ClearCase.



Solution and Post Solutions Benefits

Post-solution completion, L&T infotech has been able to deliver services in software configuration management to their clients developing better engineering technologies with ease and without any hindrances. Their revenue has shot up by over 35 percent within a few months and they were able to achieve break-even on their investments on the insourcing solution within a few weeks. The very reason for this was the nature of the solution which empowers the workforce of the client itself without the need of any third party elements and vendors. The ROI consequently is naturally very high and the Internal Rate of Return is carefully integrated inside the insourcing solution itself.

L&T Technology Services has now another segment of their software configuration management through ClearCase Tool and are able to provide their clients in the IT department with much better services than they could before.