

Build system modernization reduces build time of a software product for a global telecommunications equipment company





About the Client

A global telecommunications equipment company which functions majorly in areas of fixed, mobile and converged networking hardware, IP technologies, software and services, with operations in more than 130 countries.



Business Challenges/ Objectives

The customer had a huge software product that generated multi million dollars for them. As new features were gradually added to the software product, the size of that software grew further. Total build and deployment time for the product then increased to a staggering 55 hours. This impacted release frequency, continuously bringing down the productivity of developers and testers. Product size had grown to multi-million lines of code. With the growing team size and customer base from multiple locations, development got distributed across 4 time zones and 18 teams, adding to the complexity of build and deployment. The regression testing cases had grown to multi thousands.





HCL's Approach and Solution

HCL leveraged its rich experience in telecom industry and verticals, combined with DevOps solutions to modernize the whole build system:

1

An assessment exercise was conducted by DevOps SMEs to identify the gaps/ errors in current processes and recommended practices

2

Configuration of Continuous Integration (CI) tools was facilitated

3

HCL implemented an ingenious DevOps solution that included standardizing SCM practices, enacting governance and control, implementing build optimization strategies, using in-built features in CI tools and performance tuning

4

An in-house AI based solution helped to select regression test cases based on impact analysis of changes

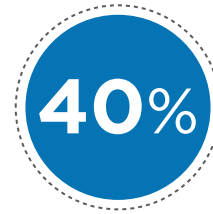




Benefits Delivered



Average time to build was reduced from a staggering 55 hours to 14 hours



Build system failure rate was reduced by 40%



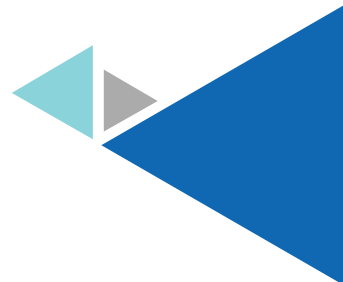
Developer productivity was enhanced by 15%



Regression testing cycle was optimized to 80%



Release to UAT increased by 3X times



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We offer an integrated portfolio of products, solutions, services, and IP through our Mode 1-2-3 strategy, built around Digital, IoT, Cloud, Automation, Cybersecurity, Analytics, Infrastructure Management and Engineering Services, amongst others. With a worldwide network of R&D, innovation labs and delivery centers, and 150,000+ 'Ideapreneurs' working in 46 countries, HCL serves leading enterprises across key industries, including 250 of the Fortune 500 and 650 of the Global 2000.

How can I help you?

HCL