Legacy applications are often the reason for a business’ inability to grow and change at the pace it needs to. While they still drive key operations in organizations, they are out-of-date, making integration with newer technologies tenuous. This greatly impacts the speed, and cost, at which newer functionalities can be enabled. Even business-as-usual activities like maintenance use up precious IT resources and budget due to sketchily understood code, obsolete documentation and unavailability of the original development team.

TCS MasterCraft Technology Suite - Application Analyzer is an automated application analysis and intelligence platform that significantly reduces the effort of support and maintenance, consolidation, migration or outsourcing of legacy applications. It is a static code analyzer for multiple technologies, offering application owners and key decision makers complete insight into applications, thus delivering higher productivity and quality in maintenance and lower cost of ownership.

Overview

Legacy applications claim a large share of IT resources and budget, and can also be an impediment to business agility. Achieving reduced manual effort in maintaining and monitoring these applications, reduced cost of ownership and quicker turn-around times are the key challenges of application managers today.

The TCS MasterCraft Technology Suite-Application Analyzer is a comprehensive, cost-efficient application analysis framework, which is completely configurable and enables effective management of your applications. It brings together functions like business rule mining, impact analysis and portfolio management for technologies ranging from COBOL to Java. Its centralized repository makes information available across teams through a web interface.

Benefits

- **Quicker turn-around time:** The application analyzer saves 10-30 percent of the manual effort that goes into understanding legacy applications, thus enabling quicker turn-around time.
- **Lower cost, higher productivity and quality:** Better application knowledge enables effective and frequent monitoring of the quality and stability of the applications, leading to better maintenance at lower cost.
- **Effective decision making:** By offering application owners and key decision makers full insight into the criticality, maintainability and stability of applications, our tool enables better, more informed decision making.
- **Up-to-date documentation:** Accurate, updated, detailed, easily understandable documentation supports knowledge transition activities.

Solution

The TCS MasterCraft Technology Suite-Application Analyzer uses a four-step analysis process to provide complete technical analysis of an application: Inventory Analysis, Parsing, Database Loading and Report Generation. The extracted information is then stored in the unique centralized database architecture of the tool, which allows the storage of analysis data for multiple technologies.

Key Features

**Application Inventory Dashboard**

This is the starting point for technical analysis, offering a bird’s eye view of the application. It allows the team to drill down to technical artifacts of the application as well as the code level implementations of business processes.

**Application Quality Dashboard**

The application dashboard view provides component-wise complexity, which also helps in understanding the criticality of each component. It also shows the quality trends of different versions of the application loaded into the system.

**Impact Analysis Workbench**

Impact analysis combines variable flow and heuristics-based analytics to get complete field level analysis for any selected field variable, covering its usage across the entire application.
The TCS Advantage

The TCS MasterCraft Technology Suite–Application Analyzer is the result of more than 15 years of research and development, and is backed by our extensive experience and knowledge in helping our clients deal with similar pain areas. It has been deployed in many of our engagements and has delivered measurable increase in productivity and reduction in costs.

Client Engagements:

- A large Automotive Insurance Company in Northern America wanted to extract application and program-specific reports for the entire P&C (Property & Casualty Insurance) system. The tool delivered the complete application data mapping as well as end-to-end system documentation within the planned schedule.
- A major US Insurance Company was considering transformation of their IT systems. They also wanted to collate technical details about their systems for maintenance before transformation. Business process and business rules information was mined and maintained in the centralized repository, which is also being used for further impact analysis and reverse engineering planning.

- A large US Retailer was looking for a solution that would speed up the system documentation. Their system includes many complex mainframe-based applications taking care of different Retail Management functions. The Application Analyzer delivered a strong knowledge repository of the technical information extracted from the application components.

Contact

To know more about TCS MasterCraft Technology Suite – Application Analyzer, contact: MasterCraft.Support@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India’s largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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