The Parasoft Development Testing Platform (DTP) eliminates the business risk of faulty software by consistently applying software quality practices throughout the SDLC. Parasoft DTP enables your software quality efforts to shift left—delivering a platform for automated defect prevention and the uniform measurement of risk across project teams. With seamless integration into any software development environment, you can observe and collect data from any SDLC infrastructure system, including open source and third-party testing tools. Parasoft DTP allows you to aggregate disparate data and apply statistical analysis techniques—transforming traditional reporting into a central system of decision.

The Parasoft Development Testing Platform:
- Provides SDLC process visibility and control across teams
- Guides developers and testers to remediate the most critical software defects
- Establishes a central control point for software defect prevention
- Prioritizes findings in order to prevent business risks
- Delivers a central system of decision for managers

**Open API for Seamless Integration and Extensibility**
With seamless integration with source control management systems, defect tracking systems, requirements management systems, test management systems, open source tools, custom tools, and other infrastructure components, DTP enables you to centralize and normalize observations throughout the development process. DTP offers multiple ways to connect into your development environment, including open APIs, out-of-the-box plug-ins, and access to community-developed plug-ins through the DTP Marketplace.

**Process Intelligence Engine (PIE)**
DTP allows you to collect millions of observations throughout the SDLC and apply advanced statistical analysis to prevent the business risks and reduce the costs associated with software failures. The Process Intelligence Engine (PIE) seeks out patterns in data across disparate systems that are difficult for humans to observe and delivers an actionable list of findings that are prioritized by the organization's policies.

**Automated Quality Practices**
Over the past 27 years, Parasoft has evolved the market’s broadest suite of enterprise-grade development testing capabilities, including:
- Static Analysis
- Unit Testing
- Peer Review
- Runtime Error Detection
- Coverage Analysis
- Traceability
For organizations that have adopted open source tools, evolved their own tools, or deployed third-party tools, Parasoft’s open API and Marketplace of plug-ins can seamlessly incorporate these tools into DTP—delivering complete process visibility and control.

**Event- and Exception-based Triggers**
Developers are the happiest when writing code and testers are the happiest when they are able to execute tests without constraints. This is why we have designed DTP to be an exception-based system. DTP runs in the background and executes upon common events, such as code check-in, build, or closing a requirement. Only if a policy is violated is a developer or tester notified of a required action. This enables you to ensure the quality, safety, and security of your applications without impeding your team’s productivity.

**Policy-driven Project Outcomes**
Policies translate business expectations into executable and monitorable actions throughout the SDLC. Policies establish objectives that can be uniformly applied and measured across projects and teams. They can be constructed for critical compliance initiatives such as security, privacy and performance. Organizations can establish corporate-level policies that serve as a baseline or apply team- or project- specific policies in order to achieve specific business objectives.

DTP provides a central interface where a manager defines and implements “how,” “when,” and “why” quality practices are implemented and measured. By automating policies across the SDLC, you can ensure that developers and testers don’t make trade-offs that potentially affect the safety, security, and reliability of your applications. Moreover, you can adapt the process to market conditions, changing regulatory environments, or customer demands.

**Key Features**
- Manages multiple data points with an open and extensible API
- Prevents business risks with the application of policies
- Coordinates the execution of development testing practices
- Delivers advances analysis SDLC process patterns
- Drives the remediation of defects
- Introduces a central dashboard for continuous process improvement

**Supported Languages and Technologies**
Java / JSP / XML / Android / Spring / Hibernate / Eclipse / JSF / Struts / JDBC / EJB / Servlets / .NET
C, C#, C++ / CLI / VB.NET / ASP / Qt / STL