PDL Testing Tools and Services

PDLs: The Brains

Page Description Languages (PDLs) describe the content and layout of a printed page to an imaging device, typically a computer printer, so it's critical for your PDLs to conform to their specifications.

The number of PDLs means that increasingly complex font variations, character/line spacing and graphics have to be accurately rendered. To be sure your implementation is successful, these capabilities must be tested in depth.

QualityLogic knows printers: the test tools we've developed over three decades have become industry standards. We can also use our full suite of tools to test your printer or MFP for you.

How Do You Cover All the Bases?

We've got your PDL covered four ways:

Comprehensive Evaluation Tests (CETs)

CETs thoroughly test page description languages, mark-up languages, and portable document formats for conformance to their language specifications. CETs support most popular imaging languages with:

- **Standard Tests** to cover common objectives for a wide variety of commands or operators using various combinations and data types.

- **Influence Tests** for the interactive influence of commands or operators (graphics states, opacity, transform, etc.).

- **Special Tests** covering definitive statements in the language specification outside the scope of Standard or Influence Tests.

- **Error Tests** of conditions found when consuming a file, including out of range parameters and illegal command sequences.

Functional Test Suites (FTSs)

FTSs test the basic functionality of each command or operator in a PDL, quickly assessing baseline conformance to the language specification. They are a cost effective and efficient way to assure the basic functionality of your PDL and are designed to the following criteria:
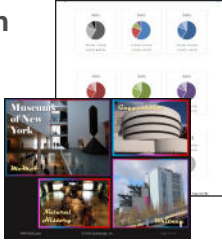
- Must run unattended in 24 hours or less

- Multiple test cases per page to minimize paper consumption

- No redundant testing, complex functional tests or illegal parameter tests

- Range tests limited to a functional range within the test case area

- Tests that impact page formatting are minimized to reduce paper consumption

Application Test Suites (ATSs)

Use ATSs to test your printer, MFP, or software product for compatibility with leading applications. They are comprehensive collections of test pages developed using all of the most popular applications.

ATS test files are designed to help you ensure compatibility in the real world with the applications your customers will use with your product. ATS tests are designed to:

- **Improve Time-To-Market** – ATS files are provided in captured binary format, so you don't have to purchase dozens of applications and develop test pages.

- **Cover a Wide Range of Applications** – The ATS library covers applications ranging from word processing and page layout, to spreadsheets, graphics arts, design, engineering, and Small/Home Office programs.

- **Optimize Test Page Design** – ATSs offer three types of test pages: progressive complexity, real-world and mechanical, to create a complete and diverse testing environment and fully exercise the printable features of each application.

- **Automate Your Testing** – The TestJob Sender automation tool manages the flow of test files to your target platform and is included with each ATS. It automates key tasks, such as performance measurement, cycling the power on hardware, test scheduling and reporting.

InteropAnalyzers

InteropAnalyzers for PDF 2.0 and OpenXPS validate your device's ability to handle these formats as they are currently used today, as well as those created using the latest releases of popular applications.

InteropAnalyzers include a SQL database with the test files' key characteristics and a Query Builder application that lets you create custom test suites and add your own files.

PDL Test Services

QualityLogic can provide full PDL testing services using all of these tools. We work with you as an extension of your engineering or QA group, or we can provide complete QA outsourcing at our facility or yours. You'll get a full report of where and why your PDL implementation falls short of compliance or fails to work with software applications, together with our recommendations for fixes.

Choose QualityLogic testing services, and you get access to world class capabilities. Our business is testing, and we bring our leading-edge skills and best practices to any testing problem. We will help you achieve the quality, cost, and schedule goals of your products.

Which PDL Do You Need to Test?

Product	PCL/ PCLXL	PJL/RTL/ HP-GL2	PDF	PostScript	XPS/ OpenXPS	HD Photo	Windows XP GDI	PPML
CET	✔	✔		✔	✔			✔
FTS	✔		✔	✔	✔	✔	✔	
ATS	✔		✔	✔	✔			
InteropAnalyzer			✔		✔			

For More Information

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