

PROGRESS® DATADIRECT® QA AND PERFORMANCE TESTING

EXTENSIVE TESTING ENSURES DATA CONNECTIVITY THAT WORKS

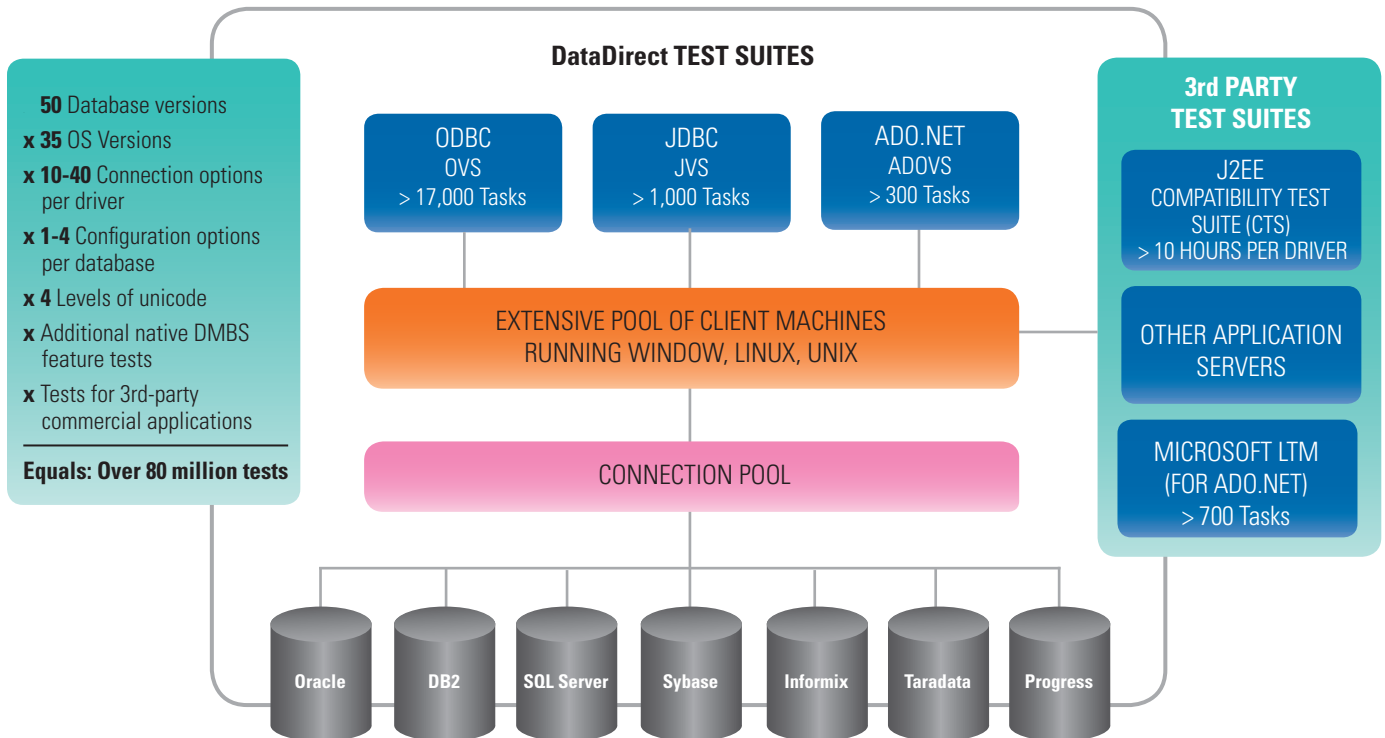
Progress® DataDirect® ODBC, JDBC and ADO.NET data connectivity components are rigorously tested under production conditions using proprietary, Progress DataDirect in-house testing suites. These have evolved over 16 years to include millions of test cases, multiple connection modes and every known bug fix. The diagram on the next page illustrates the extensive Progress DataDirect testing framework. This includes:

- > The Industry's largest testing suites for ODBC, JDBC and ADO.NET
- > Millions of test cases ensure reliability on all supported database and platform versions
- > All major client operating systems, including Windows, Oracle, Solaris, HP-UX, IBM AIX, and Linux
- > All major database versions, including six versions of Oracle and DB2 on Windows, Linux, UNIX, AS/400 and z/OS
- > Over 50 CPUs on UNIX, Windows, Linux, AS/400, including a mainframe
- > Multiple connection modes

"We have benefited a great deal from the superior performance and flexibility inherent in Progress® DataDirect Connect® for ODBC. With DataDirect, data connectivity is never a risk in our project plans."

*Mike Burkes, Manager
Data Access Services
Toyota Motor Sales*

- > Constant regression testing to guarantee every fix is included in every product version
- > Testing for J2EE CTS and all supported JDKs



LARGEST, MOST MATURE ODBC TESTING SUITE INCLUDES MILLIONS OF TEST CASES

The Progress ODBC testing application, the DataDirect ODBC Verification Suite (OVS), is the largest, most mature ODBC testing infrastructure in existence. The OVS is designed to ensure quality and reliability, verify the latest ODBC specifications, and test against all supported database versions and operating systems:

- > 17,000 tasks run against every permutation of supported database and platform version, resulting in millions of test cases being run
- > Over 200,000 lines and more than 240 modules of portable C code
- > Testing for ODBC compliance

This extensive testing ensures your target database and platform version have been thoroughly tested for quality and functionality. As a result, you don't have to wait until it's time to go into production to find out whether your deployment environment will work.

COMPREHENSIVE JDBC TESTING INCLUDES ALL JDKS, MULTIPLE CONNECTION MODES, AND JAVA APPLICATION SERVERS

Our JDBC Verification Suite (JVS) provides the same extensive testing coverage of supported database versions as the OVS, while also testing our JDBC drivers for:

- > Compliance with all supported JDKs
- > Compliance with Sun J2EE CTS (Compatibility Test Suite)
- > Multiple connection modes—pooled, URL, data source and resource adapter—run against all different versions of the Java runtime
- > Integration with customer-supplied applications
- > Compatibility with Java application servers

ADO.NET DATA PROVIDERS TESTED AGAINST ALL DATABASES AND THE MICROSOFT LTM

As with DataDirect ODBC and JDBC drivers, Progress is committed to providing you with the fastest and most functional ADO.NET data providers. The Progress DataDirect ADO.NET Verification Suite (ADOVS) provides the same extensive coverage, testing all supported Windows platforms and database versions. DataDirect products also test ADO.NET conformance using the Microsoft LTM (Local Test Manager). This comprehensive testing ensures that you can develop the most robust .NET solution.

PROVIDES THE PERFORMANCE AND SCALABILITY YOUR CUSTOMERS DEMAND

To test for performance, the experienced Progress staff uses a wide variety of tests written to exercise the driver, not the database, so driver execution is isolated and measured. Performance tests include:

- > Every area of functionality in which a user is expecting high performance, such as inserts, updates, deletes and selects
- > Simple queries to amplify execution of the driver as much as possible, not the database engine
- > Very high-volume and batch transactions using an array of parameters for 100 statements at a time
- > Data type conversion and parameter testing
- > Every major database such as DB2, Oracle, and Microsoft SQL Server
- > More than 100 hours or four days for each driver
- > Every product release and most product patches

To test for scalability, we start with one thread and increase the thread count until either the client-side hardware or the server-side hardware reaches saturation. Progress is always striving to improve over our previous product release and looks for factors such as:

- > Good response time
- > Efficient use of network traffic
- > Disk I/O usage
- > Efficient use of memory

All these factors are taken into account to maximize the efficiency of the driver for every product release.

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PROGRESS SOFTWARE

Progress Software Corporation (NASDAQ: PRGS) is a global software company that enables enterprises to be operationally responsive to changing conditions and customer interactions as they occur. Our goal is to enable our customers to capitalize on new opportunities, drive greater efficiencies, and reduce risk. Progress offers a comprehensive portfolio of best-in-class infrastructure software spanning event-driven visibility and real-time response, open integration, data access and integration, and application development and management—all supporting on-premises and SaaS/cloud deployments. Progress maximizes the benefits of operational responsiveness while minimizing IT complexity and total cost of ownership.

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