

# QA And Performance Testing

DATA SHEET

## TOP FEATURES

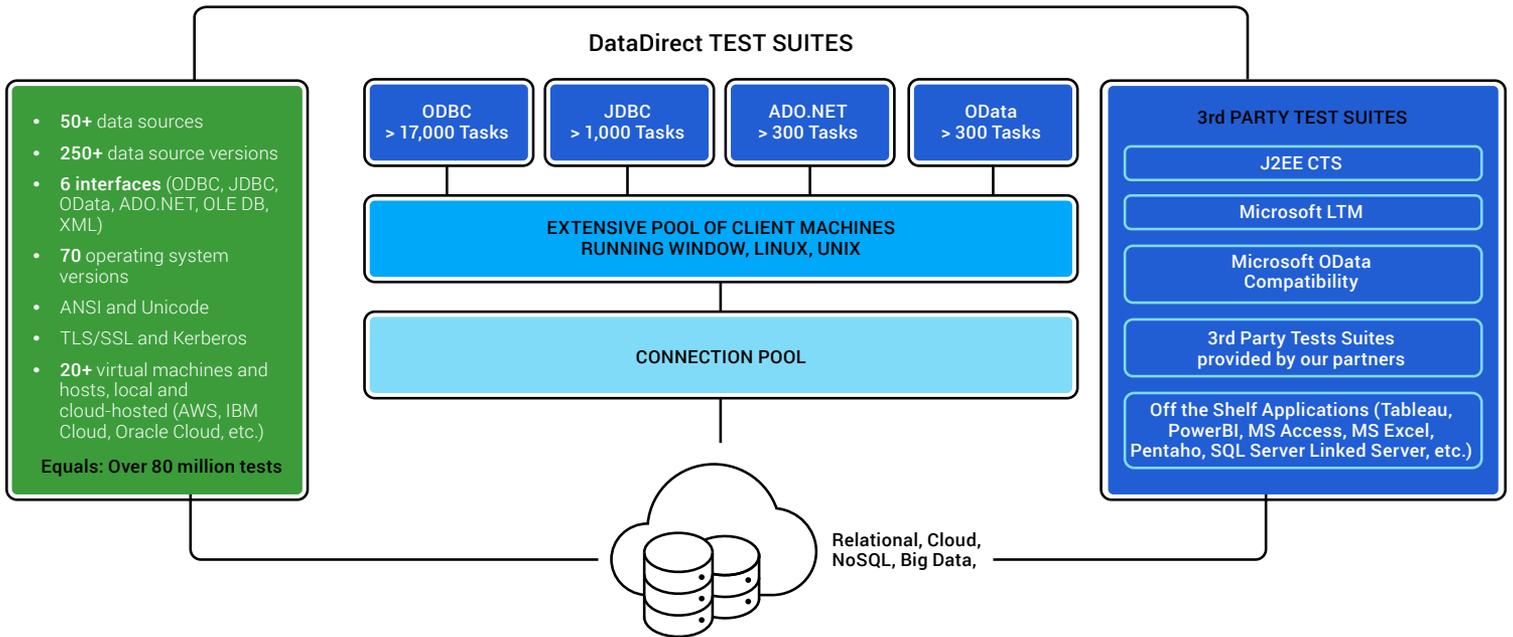
- ✓ The industry's most comprehensive testing suites for ODBC, JDBC, ADONET and ODATA
- ✓ Robust security verification including TLS, Kerberos, Operating System and database-level authentication to protect data both in motion and at rest
- ✓ Focus on reliability and upgradability for enterprise use cases
- ✓ Compatibility testing on many operating systems and versions across Windows, Linux, AIX, HP and more
- ✓ Source testing a wide array of databases and versions, including Relational, Big Data, Cloud and NoSQL
- ✓ Industry-specific API tests including J2EE CTS, Microsoft LTM and FIPS Compliance
- ✓ Third-party compliance and off-the-shelf application testing for full interoperability

## Extensive Testing Ensures Data Connectivity That Works

Progress® DataDirect® connectors are rigorously tested under production conditions using industry compliance testing, third party tools and proprietary in-house testing suites. Our in-house suites have evolved over 25 years to include millions of test cases for every modern connectivity scenario, including enterprise Client-Server, On-Premises, Cloud, Big Data, NoSQL and Hybrid models.

Our extensive QA and Performance testing environments scale across hundreds of driver, database and operating system combinations, including both major and minor releases.

DataDirect invests in our testing environment so our partners don't have to, delivering continuous quality through comprehensive testing

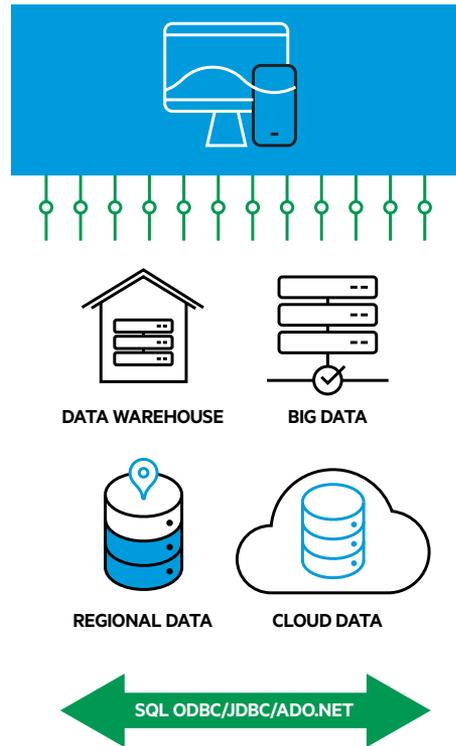


## Enterprise Client-Server

For the entire lifetime of client-server computing, DataDirect has been at the forefront of connecting applications to data. With a proven 25-year history, strong technical leadership and robust product line, software architects worldwide depend on Progress DataDirect to connect their applications to an unparalleled range of data sources using standards-based interfaces. That connectivity is meticulously tested with millions of test cases and full regression testing with each release.

- ✓ Enterprise testing against every permutation of supported database and platform versions
- ✓ Strict ODBC, JDBC and ADO.NET compliance
- ✓ Focus on upgradability, ensuring smooth transitions when drivers, databases and platforms are updated
- ✓ Off-the-shelf application integration testing with Tableau, PowerBI, Pentaho, Microsoft Office and SQL Server Linked Server
- ✓ Over 80 million individual relational database tests, including tests for individual native RDBMS functionality to ensure API compliance

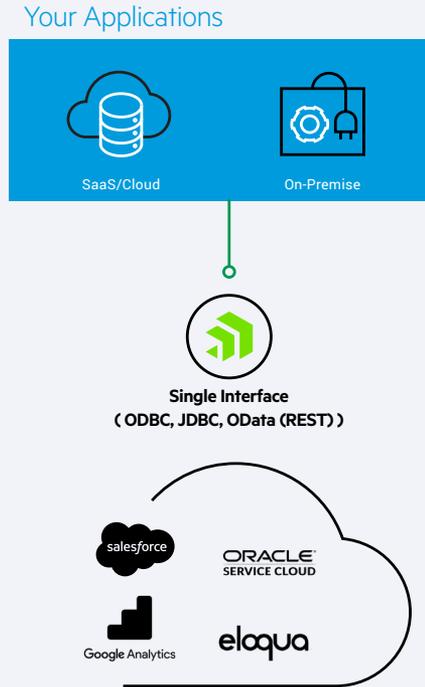
### Applications



Over 80 million individual tests across on-premises drivers, including tests for individual native database functionality to ensure API compliance

# Cloud

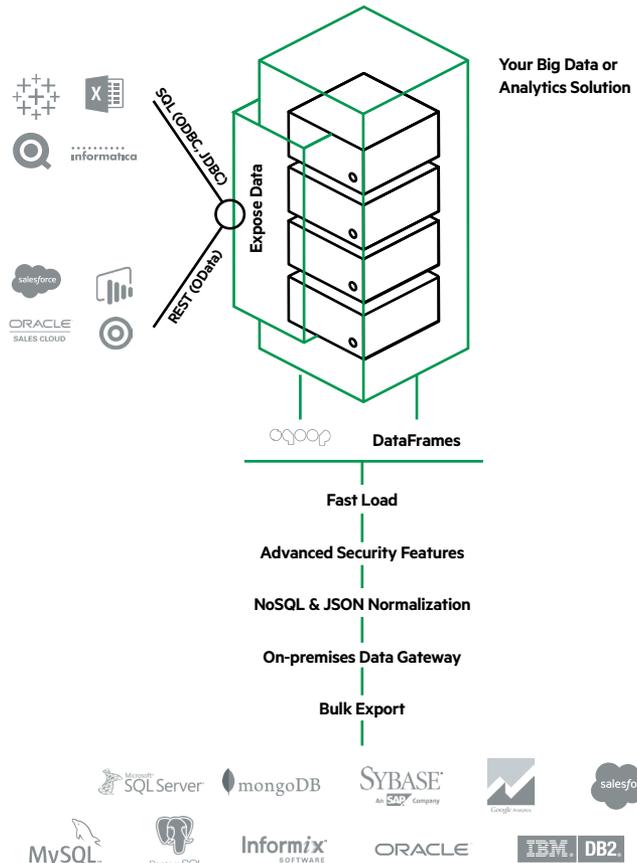
- ✓ Test cycles designed for continuous delivery with a release cadence to match SaaS sources
- ✓ Verification with the Microsoft OData Compatibility Checkers
- ✓ Performance testing that isolates connector behavior, so that tests are not impacted by SaaS-service throttling
- ✓ Test scenarios that combine and Cloud and On-premises components for real-world use cases



# Big Data

- ✓ Verification with the Microsoft OData Compatibility Checker
- ✓ Comprehensive testing across multiple Hive distributions
- ✓ Performance testing that isolates connector behavior, so that tests are not impacted by SaaS-service throttling
- ✓ Tests span nodes or shards to mimic real-world usage
- ✓ Comprehensive testing of the highest value Big Data stores on the market

## On-Demand Enterprise Data Connectivity for Cloud and Ground



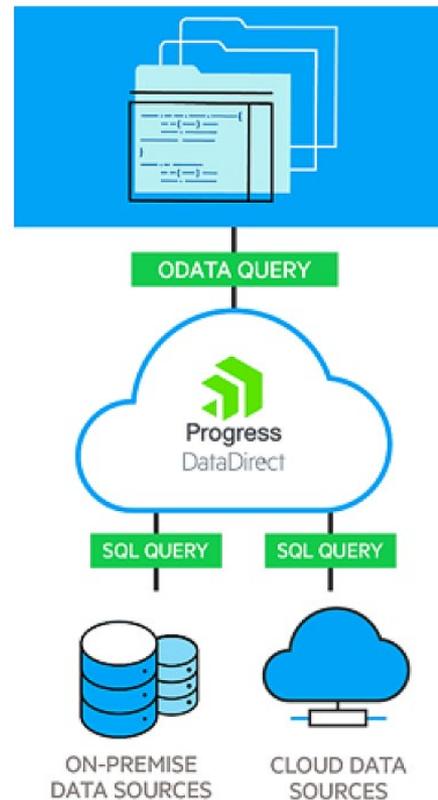
Comprehensive testing of over 30 versions of big data stores

## Hybrid

Environments with a mix of On-premises and Cloud components present a unique challenge as they combine the enterprise demands of client-server models with the increased security needs of Cloud models. DataDirect Hybrid testing is designed to ensure robust, fast, secure connectivity to Cloud and On-premises data regardless of the source—SaaS apps, NoSQL and Big Data stores, relational databases and more.

- ✓ Sensitive data protected by encryption, both at rest (AES-256) and in transit (SSL/TLS) with all user passwords encrypted using SHA-256-bit one-way hash with per-user salt
- ✓ Responsive to TLS/SSL patches as well as compliance with the Progress DataDirect Security Vulnerability Response Policy
- ✓ Testing interoperability across sources to safeguard consistent driver behavior
- ✓ Compatibility with your most important business applications across SaaS, NoSQL, Big Data and On-premises data using standard SQL queries and REST APIs
- ✓ FIPS Compliance

## OData Applications



Millions of tests to verify interoperability and catch regressions, so you don't have to.

## The Performance and Scalability Your Customers Demand

DataDirect has authored a wide variety of tests written to exercise the connector, not the data store, so that execution is isolated and measured. SaaS sources commonly throttle access, so measurables at the meta level hide connector performance. DataDirect isolates this behavior so that connector functionality and performance have nowhere to hide. Our goal is to meet or exceed every other option in the market.

## Areas of performance testing include:

- ✓ Every area of functionality in which a user is expecting high performance, such as inserts, updates, deletes and selects
- ✓ Very high-volume and batch transactions using an array of parameters for 100 statements at a time, plus connection pooling and transparent reconnections
- ✓ Data type conversion and parameter testing
- ✓ Scalability, throughput, memory and CPU testing to the point of hardware saturation
- ✓ Tracking and verification of network calls for efficient use of network traffic

## We Do Comprehensive Testing- So You Don't Have To

Progress DataDirect is a pioneer in standards-based connectivity— we co-founded the ODBC specification and served on the JDBC Expert Group, OData Technical Committee and ANSI SQL Committee. Today, we work with 350+ technology partners around the globe and our connectivity is distributed in 8 of the top 9 Business Analytics platforms and 5 of the top 6 Data Integration tools. Our partners trust us because we deliver full-featured and fully-tested connectivity. We test everything- so you don't have to.

### About Progress

Progress (NASDAQ: PRGS) offers the leading platform for developing and deploying mission-critical business applications. Progress empowers enterprises and ISVs to build and deliver cognitive-first applications that harness big data to derive business insights and competitive advantage. Progress offers leading technologies for easily building powerful user interfaces across any type of device, a reliable, scalable and secure backend platform to deploy modern applications, leading data connectivity to all sources and award-winning predictive analytics that brings the power of machine learning to any organization. Over 1,700 independent software vendors, 100,000 enterprise customers and 2 million developers rely on Progress to power their applications. Learn about Progress at [www.progress.com](http://www.progress.com) or +1-800-477-6473.

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