



## Rapid Application Development for the Teradata™ environment



The Spotlight Application Suite™ is a set of software components that provide an advanced application development environment for Teradata™ customers.

### Business Challenges

Business users are grappling with application development issues that stand in the way of their goals. These issues can include: backlogged requests for applications from the I.T. department, tight resources to develop new solutions to business problems, a dynamic business environment with rapid changes, and attempts to automate business decisions with better application technology.

### I.T. Challenges

Nearly every I.T. department is pressured to support its business users with timely applications, reports, queries, and tools to satisfy the voracious need for data and resulting decisions. Technologists are wrestling with how to do this while balancing scarce skills, budget constraints, few tools, expensive tools, productivity issues, and ever-changing business requirements.

### Applications in the Teradata Environment

If you are trying to code, test, and manage application development using any of the following then you know how hard it is:

- ❖ BTEQ & Utilities
- ❖ SQL scripts
- ❖ Macros, Stored Procedures
- ❖ C, C++
- ❖ Java, .NET, JavaScript, SOA
- ❖ BI Tools
- ❖ ETL Tools
- ❖ Eclipse, Rules Engines, BRMS
- ❖ Dashboards and portals
- ❖ Excel



### Solution

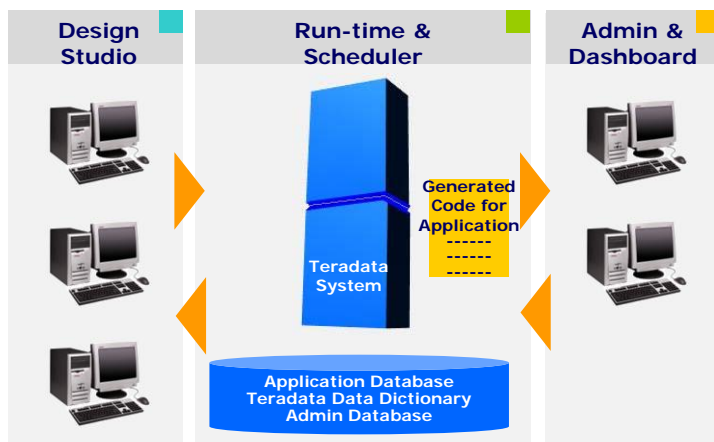
Our application suite helps business and IT users develop enterprise decision-automation applications in a timely, productive, and cost-effective manner using simple visual tools ... all without coding. That's right ... no coding.

### Development Suite

The Spotlight Application Suite™ uses advanced business rules technology (in the form of decision tables) to express the complete logic of an application. The decision table is the basis for a visual Design Studio that builds a completely validated and tested application that runs in the Teradata environment. The four components of the product suite are:

- ❖ the **Design Studio** (where applications are designed, validated, and tested)
- ❖ the **Run-time** environment (where the completed application is scheduled and executed)
- ❖ the **Admin /Dashboard** application (used to setup the system, generate the application, and observe system behavior via a dashboard interface)

These components are shown below and explained later.





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### Suite Components

The four components of the application suite automate application development, codify business logic/processes, automate application code generation, automate enterprise decisions and put both Business and IT in control of their application development. The components interact in the following ways:



### How the Suite works

#### Definition Phase ... an Application is

1. Defined via Design Studio using Decision Tables
2. Validated, tested, and installed

#### Execution Phase ... an Application is

3. Verified / Enabled by Admin
4. Native Teradata code is produced automatically
5. Executed via Run-time
6. Monitored by Dashboard



### Design Studio

The design studio is used by business and IT users to define, validate, test, and install applications using a simple, visual interface.

Applications are modeled using decision tables containing logical expressions of Rules and Actions. Very sophisticated operations are provided for the end-user application developer. These include:

- ❖ rule validation (overlap, underlap, ambiguity, completeness, typing)
- ❖ rule testing / test coverage analysis
- ❖ specification of rule actions (1-N actions for each rule)
- ❖ application check-in

Once an end user constructs Rules, they associate Rule Actions with the various Rule Conditions. The combination of Condition and Action forms a completed Rule that can be tested through the powerful test capabilities of the Design Studio.

### Run-time

The run-time environment supports the scheduled execution of the applications defined by the end-users. When an application is "installed" by the end-user, it goes through a review process from the system administrator. When the administrator is convinced the application is ready for execution, it is "deployed". As part of the deployment process, the application compiled code is scheduled for recurring execution.

### Admin / Dashboard

The administrative application defines two major portions of the system:

- ❖ users
- ❖ applications

The dashboard is the view-port into the workings of an application and its execution environment. During the application execution, the run-time environment records two major pieces of information used by the dashboard:

- ❖ application execution information
- ❖ application decision information

If you are looking for an application development suite that produces tested, accurate, documented, maintainable, cost-effective applications that are optimized for the Teradata environment, please contact us at [sales@spotlighttechnology.com](mailto:sales@spotlighttechnology.com). You can find more information at [www.spotlighttechnology.com](http://www.spotlighttechnology.com).

