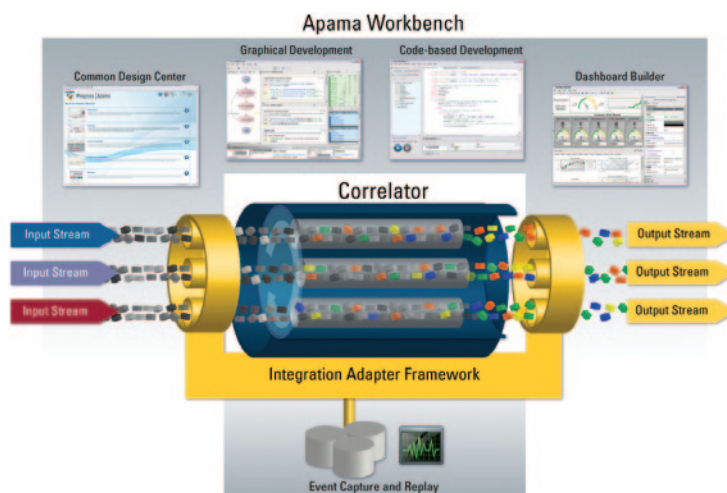


# PROGRESS<sup>®</sup>

## APAMA<sup>®</sup> ARCHITECTURE

The Progress<sup>®</sup> Apama<sup>®</sup> Event Processing Platform is a complete design and deployment environment for building Complex Event Processing (CEP) applications. From graphical design tools, developer-centric editors and debuggers to production profilers and research and back-testing utilities, the Progress Apama platform provides a complete suite of mature, market-leading technology that is accessible to a wide range of users. Analysts, developers, and administrators can leverage tooling tailored to their specific needs to build and manage the full lifecycle of CEP applications.



The Apama platform provides a set of capabilities uniquely suited to building scalable, event-driven applications and is focused on three overarching themes: *productivity*, *performance* and *integration*.

## PRODUCTIVITY

The Apama Platform provides a complete suite of highly integrated tools for the developer and business analyst for building CEP applications.

APAMA TOOL AND DESCRIPTION	
<b>Progress® Apama® Studio</b>	<p>For the developer community, Apama Studio is an Eclipse-based IDE hosting all the Apama developer tools for application development. Its project model can include application code in the Apama EPL (MonitorScript) or Java, adapters and other services. Studio includes a wealth of features ensuring a productive development experience:</p> <ul style="list-style-type: none"> <li>&gt; The <b>Code Assistant</b> assures syntax clean code as you type.</li> <li>&gt; Building applications for an event-driven world presents new programming challenges. Apama Studio offers a source-level <b>debugger</b> to assist the developer to meet these challenges. It allows you to set breakpoints to suspend applications at specific points, examine contents of program variables and single stepping.</li> <li>&gt; Moving your application projects from development to production is a snap with a built-in <b>deployment tool</b>.</li> <li>&gt; Discovering potential CPU bottlenecks in your applications before or after deployment is easily done using the <b>production profiler</b>.</li> <li>&gt; Backtest your applications against historic data to confirm behavior, test scalability, robustness, and conduct “what if” analysis with the <b>Data Player</b>.</li> <li>&gt; Share code modules and components (i.e., SmartBlocks) by leveraging Apama Studio support for <b>team development</b>.</li> </ul>
<b>Progress® Apama® Event Modeler</b>	<p>The Apama Event Modeler is a graphical modeling tool for the business analyst to design and build event-driven applications. SmartBlocks provide an extensible set of re-usable modules, easily inserted and parameterized within Event Modeler.</p>
<b>Progress® Apama® Dashboard Builder</b>	<p>Apama Dashboard Studio provides a set of tools to develop visually rich user interfaces. It provides an object pallet and a “paint-a-canvas” way of working, in which you drag-and-drop graphical objects on the canvas and they bind to the output data of your Apama CEP applications. Dashboards can be deployed via the Web or Windows clients.</p>

The platform also includes a suite of starter kits in the form of tutorials, demonstrations and accelerators for specific businesses and vertical industries. These provide that jump start to get you off and running towards having a complete solution. We provide these starter kits in numerous vertical industries such as Capital Markets, telco, manufacturing, logistics and energy.

## PERFORMANCE

The **Apama Correlator**, our event processing engine, offers native capabilities for event handling, event stream correlation, pattern matching (inclusive of temporal logic) and execution of the actions upon detection of those patterns. Equally important is a flexible means to process events in parallel that gives users control over the decision to run in parallel mode. The Correlator incorporates a high-performance scheduler that squeezes the most out of system threads and multi-core processors. The Correlator delivers massive vertical scalability via a clean language semantic that minimizes multi-threading programming problems. Additionally, Correlators can be interconnected in a federated/distributed network for horizontal scaling.

## INTEGRATION

The Apama Event Processing Platform includes a robust integration framework with adapters for different event streams and APIs for customization and integration within different application environments.

The **Apama Integration Adapter Framework (IAF)** facilitates bi-directional exchange with event sources. Apama offers a wide range of packaged adapters for Capital Markets-specific data sources as well as infrastructure connectivity to database and messaging sources. The IAF also includes a toolkit to develop adapters for integration with new data sources.

Apama includes a wide range of APIs at the dashboard, client and Correlator levels, providing integration with a variety of environments (e.g., Java, Java Beans, C, C++ and .NET.)

## A MATURE PLATFORM FOR PRODUCTIVITY, PERFORMANCE AND INTEGRATION

Apama's event-based architecture ensures real-time operational responsiveness to fast-moving event data of any kind. Whether it's market data in Capital Markets, call detail records in telco systems or sensor data in transportation and logistics, the productivity, performance and integration of the Progress Apama Event Processing platform easily enables the development of scalable, high-performance, low-latency event-based applications.



## 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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Rev. 06/11 | 6525-129454

