

PROGRESS® DATADIRECT® SHADOW® z/EVENTS

MAINFRAME CHANGE DATA CAPTURE—EVENTS

Everyday, thousands of times per second, changes occur in databases supporting business and government that have distinct meaning. Real-time data “events” are the informational building blocks for business intelligence, business activity monitoring and government data analysis/intelligence gathering. Meaningful data events predominate in the highly transactional environments of the mainframe, particularly given its primary industry verticals—financial services, insurance, manufacturing and government.

Progress® DataDirect® Shadow® z/Events is a comprehensive facility for managing the real-time capture, transformation and publication of data changes or events that occur within a broad range of mainframe databases (Adabas, DB2, IDMS, IMS and VSAM). Without touching application code, Shadow z/Events captures mainframe-based business events in real-time and asynchronously routes the event to distributed databases or business processes via HTTP/HTTPS or WebSphere MQ.

KEY FEATURES

- > Non-invasive event capture
- > Event transport via MQ, HTTP
- > Event control via rules
- > Transactional integrity
- > Event enrichment and aggregation
- > XML transformation
- > Support for log streams

Progress DataDirect Shadow z/Events provides a comprehensive list of key features to enable Change Data Capture in support of Business Events.

| SHADOW z/EVENTS KEY FEATURES | | | | | |
|--|--|--|--|---|--|
| Non-invasive to Mainframe Environment | Real-time Intelligence | Transactional Integrity | Enrichment and Aggregation | XML Transformation | Support for DB2 Log-based Capture |
| Event “listeners” require no changes to mainframe application code | Operates in real-time, reducing latency and expenses associated with polling routines and traditional batch processing | Events are detected and logged 24x7 and are embedded within the application Unit of Work—never processed until the Unit of Work has been committed | Events can be enriched with contextual information, filtered and aggregated from other datasources, transforming an innocuous technical state change into an event with increased business meaning | Captured mainframe events are transformed into XML to facilitate utilization with a broad range of distributed applications and databases | Support for DB2 Instrumentation Facility Interface (IFI) enables committed DB2 data to be extracted from the DB2 logs for event capture and publishing |

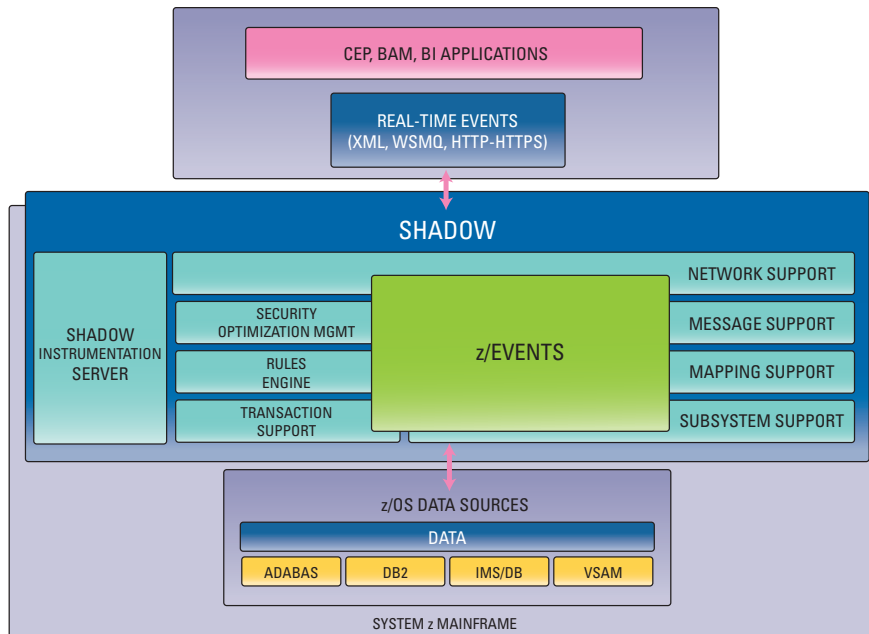
SMART EVENTS ADD MORE VALUE

In many situations the information, which describes the event, can be enriched through incorporation of environmental data occurring at the same time. The initial data state change may be inadequate to provide maximum value to the consumer without contextual data enrichment. Shadow z/Events provides the ability, through the Shadow unified architecture, to simultaneously poll other mainframe databases for environmental data that increases the business value of the original technical event, delivering essentially a “smart event.” Data replication tools provide limited support for event enrichment since they need only replicate the changes to data to meet their objectives.

COMPREHENSIVE EVENT MANAGEMENT FACILITY

Shadow z/Events is a comprehensive facility for managing the real-time capture, transformation and publication of changes or events that occur within a broad range of mainframe databases, including Adabas, DB2, IAM, IMS/DB, and VSAM.

With Shadow zEvents, architects can easily utilize real-time mainframe events to automate heterogeneous business processes for enhanced service



oriented architectures (SOAs) or create an asynchronous datastream to feed event-driven architectures (EDAs) and complex event processing (CEP) or simply maintain data consistency between distributed databases and mainframe systems of record.

SHADOW STUDIO FOR MANAGING EVENTS

Progress® DataDirect® Shadow® Studio provides a universal view across all mainframe integration components, including client adapters, server and mainframe interfaces. Shadow Studio provides an open, Eclipse-based development and test environment for the management of mainframe business events. With Shadow Studio, developers have the ability to create an event profile within a mainframe database—identify the location, define rules, timing and destinations—and then run the event capture and destination profiles for validation.

COST-EFFECTIVE EVENT-DRIVEN INTEGRATION WITH ZIIP EXPLOITATION

The Shadow architecture has been extended to exploit the latest IBM System z architectural features, in particular the System z Integrated Information Processor (zIIP). Specialty engines are processors very similar to the mainframe General Purpose Processor (GPP), with two key differences—

their workloads do not count against mainframe MIPs or MSUs, and they are not speed restricted, but run at full capacity. With Shadow, processing data-intensive workloads into XML events can be diverted from the mainframe's General Purpose Processor to the zIIP specialty engine, thereby reducing MSU utilization. Shadow opens up the zIIP to additional workloads beyond parsing DB2 events to include IMS, VSAM, IAM, Adabas and IDMS data environments. Shadow z/Events provides customers with improved mainframe data performance and dramatically reduced mainframe total cost of ownership (TCO).

EXPANDING THE ROLE OF THE MAINFRAME

As mainframe-centric enterprises increasingly embrace the concept of real-time event integration—particularly within the context of SOA, CEP (complex event processing), and BAM (business activity monitoring) initiatives—business requirements dictate the need for detecting and reacting to complex patterns comprised of multiple events. Shadow z/Events adds yet another option to expand the role of the mainframe across the enterprise, providing real-time data intelligence with Web services orchestration (via BPEL) for advanced SOA initiatives that can increase operational efficiency.

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.

WORLDWIDE HEADQUARTERS

Progress Software Corporation, 14 Oak Park, Bedford, MA 01730 USA

Tel: +1 781 280-4000 Fax: +1 781 280-4095 On the Web at: www.progress.com/datadirect

For regional international office locations and contact information, please refer to the Web page below:

www.progress.com/worldwide

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