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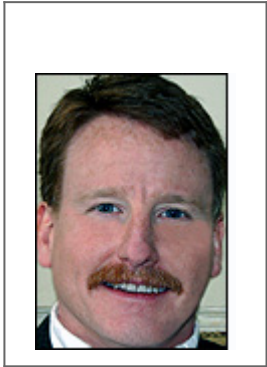
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Complex Event Processing and RFID

Radio frequency identification and sensor network applications fit into a new category that has been dubbed “event-driven applications.” At its core, RFID solutions and other event-driven applications must process and analyze the many thousand of events—in this case, readings of RFID tags—occurring on the

network. In some instances, the event data is enriched for later analysis, but often, an event-driven application must immediately identify time-sensitive business events and notify key stakeholders that need to take action.



Complex event processing (CEP) software is a new breed of infrastructure software that helps event-driven applications—such as RFID solutions—process, analyze and lend meaning to the many events occurring every second. CEP software replaces the need to custom develop an event-processing engine, thereby lowering development time and costs, while enabling easier and more reliable deployments. Many analysts favorably compare the value of CEP software for event-driven business applications with that of relational databases for data-centric business applications in the 1990s.

RFID Application Challenges

Building and deploying event-driven applications such as RFID has traditionally been expensive, requiring a combination of custom development and the knitting together of infrastructure software that has not been optimized for the tasks involved. As the RFID market expands past the early-adopter stage, applications must mature to meet a higher set of expectations from customers by addressing the following requirements:

- Faster delivery of new application functionality to address a user's requirements and competitive threats
- Lower development costs and increased development team productivity
- Swifter, easier deployment, customization and tuning of applications
- Support for wide-scale deployments and 24-7 mission-critical operations