

## RFID event processing

**Collects, organises and manages  
RFID data in real time**

**Scales to support vast volumes as  
tagging begins at item level**

**Extracts meaning from data as it  
streams**

**Low total cost of ownership with  
platform and RFID hardware  
independence**

BusinessEdge RFID key functions:

**Complete RFID application  
development environment**

**Real-time in-memory database**

**Electronic Product Code (EPC)  
compliance**

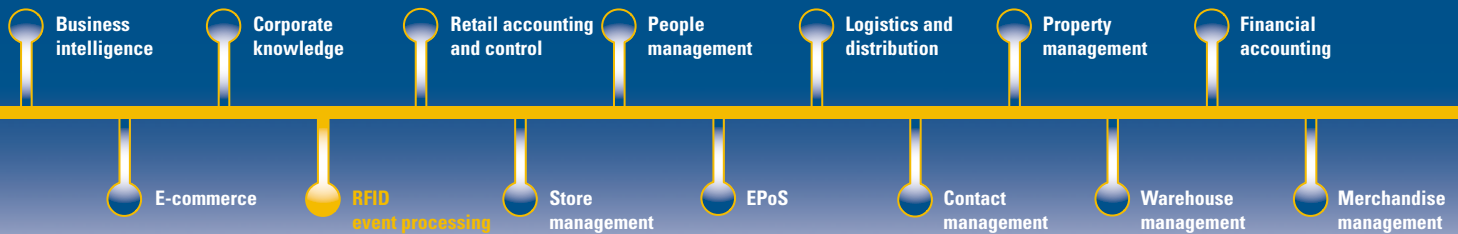
**Complex Event Processing**



The cost of Radio Frequency Identification – RFID – is plummeting. Soon it will be cost-effective for any retailer to gather data inexpensively, all the time, in real time. By eliminating the manual process of scanning bar codes, and replacing it with a tiny radio station attached to each object, RFID can transmit data about that object anytime, anywhere. Retailers are among the first to face the problems of digesting the anticipated deluge of data and translating raw RFID event data into meaningful information that can be processed by enterprise applications.

BusinessEdge for Retail is first to provide a solution with real-time data management and event stream processing. Data is written to memory, at in-memory speeds, and incrementally written to disk in order to avoid the bottleneck that relational database management systems would create in this environment.

We offer the only commercial implementation of real-time data management that unites the immediacy of in-memory decision-making with the historical visibility of a database. Complex Event Processing deals with the task of processing multiple streams of simple events with the goal of identifying the meaningful events on the fly, within those streams, and comparing with historical data, with the same immediacy of response. It is this combination of real-time and historical data that is unique to BusinessEdge for Retail and that will enable retailers to track stocks and better manage inventory, as RFID takes off. Your investment is protected through our adherence to RFID standards, platform independence and scalability.



## *BusinessEdge for Retail applications connect to the enterprise service bus for integrated business processes and management information*

IDC

**“As more cases and pallets – and eventually items – are tagged with RFID and electronic product codes, companies will require complex event processing to manage and analyse this new data.”**

*Christopher Boone, Program Director,  
US Vertical Research at IDC*

BusinessEdge for Retail’s real-time event engine and event stream processing solutions are specifically designed to support the performance demands that RFID solutions generate and enable applications to gain the ability to track products throughout the supply chain, down to the item level. We support RFID in three ways: by providing the industry’s first real time in-memory database, through EPC code support, and RFID Savant interfaces.

Products include:

**ObjectStore® RFID Accelerator™** is built on the ObjectStore Event Engine, a real-time data management product for streaming event data. The ObjectStore Event Engine provides event-driven applications with a reliable way to both manage high-volume, high-velocity data, and concurrently execute real-time queries on those event streams.

**Cache-Forward Architecture (CFA)** uniquely combines the high performance and data persistence necessary to ensure the availability and reliability required by enterprise RFID applications and handles sustained throughput of 50,000 events a second, with subsecond processing.

**Support for EPC information service** – We provide an extensible adapter model for the collection of RFID events from disparate sources, as well as the ability to query RFID event history with different formats and protocols.

**EPC-compliant middleware** – Broad support for popular readers, printers and tag formats enable developers to quickly and seamlessly integrate collected RFID data into your BusinessEdge for Retail applications or other ERP, supply chain and warehouse management systems.

**Native support for Sonic ESB®** – reliably and securely delivers RFID business events directly to appropriate warehouse management and ERP systems.

BusinessEdge for Retail’s RFID solutions easily adapt to fit your business needs without incurring long implementation times or delays in achieving a return on investment. They integrate together, with BusinessEdge for Retail’s best of breed applications, or with existing systems via the world’s leading enterprise service bus, Sonic ESB, in order to minimise integration time and cost.

### Finding out more

You can check out some of our retail successes at [www.progress.com](http://www.progress.com) or contact Marketing Unit on 0845 665 2754  
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