RFIdirector™

RFIdirector™ middleware is a loosely-coupled, multi-tiered architecture, message passing system. It is truly "Smart Software" that employs a unique, patent-pending Transaction Processing Language, which along with the Tag Description Language provides an end-to-end RFID development environment to put users in control of their data. The Transaction Processing Language, plus the Tag Description Language, comprises the user specified portion of the RFIdirector™ middleware. The language makes no assumption about the standard, if any, that the tag uses in its encoding. The purpose of the language is to describe how the data contained on the tag is structured to permit conversion and use of the data in further processing of the information. The processing language is used by the RFIdirector™ to enable the normalization of the data and ultimately the construction of a transaction against the supporting enterprise database like Oracle, IBM DB2, MS-SQL server, and other SQL databases. If the Tag Description Language is considered the static portion of the specification, then the Transaction Processing Language is considered the active portion. RFIdirector is Smart Software for RFIDÔ that implements these capabilities and provides for the interoperability of any attached devices.

This flexibility and extensibility is achieved by the use of message-ingesting threads that are insensitive to where the data comes from. Each thread's job is to do its share of processing and pass it on to the next appropriate thread. In summary: input source to application specific via a message, application specific to output target via message. As RFIdirector is implemented as a collection of independent threads, no time is lost awaiting events that could block execution, thereby providing the necessary performance needed to support the anticipated RFID transaction load and volume.

Data is then normalized, transactions are created, and the enterprise database is updated accordingly.

RFIdirector . . . Smart Software for RFID!