

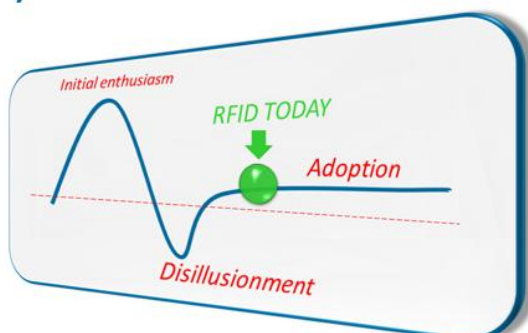
.onID

Aton's Radio Frequency IDentification: You Can Have RFaith in Us!

RFID Opportunities

RFID technology is a big opportunity in our present time: it allows to identify items, implementing complete traceability all along the Supply Chain in a faster and more reliable way than ever before. It may be used as a weapon against counterfeiting, because it solves most problems in, for example, Fashion industries or wherever the brand image needs to be guaranteed. Moreover, RFID helps not only by reducing costs and improving efficiency all over the companies' logistic processes, but it can also be used as a marketing lever in order to make objects interact with other objects inside the shop, thus

Today we are here!



allowing for a richer and more user-targeted advertising communication during the shopping process ("the Shop Experience"). **.onID** is our solution to manage a whole variety of scenarios in which RFID technology matters. It is currently used across various industries: fashion and luxury goods, foods, manufacturing and biotechnologies.

.onID: Technical

.onID is an RFID middleware, i.e. a software in charge of collecting all "rough" readings from RFID tags and refine them according to well-defined processes, with the aim of making them available to a front-end application, which can be an ERP or a departmental application. Such refining processes may include among others: filters, reductions, validations and decodings on the basis of external databases, and many other nuclei. As shown, there is not a fixed, one-size-fits-all processing "flow", but it is desirable to build a chain of simple (and standard) processes which, all together, allow to make the rough datum available according to the needs of the specific system.

From this standpoint it is therefore very important to build a software in a modular and customizable way, so as to reduce the impact of the customization necessary

for the user needs and maintaining itself, at the same time, inside a structure which minimizes the possibility of application bugs and the need for maintenance.



The auto-diagnosis and fault tolerance capabilities that **.onID** features are also important: it is possible to install a system in cluster, in such a way that it should maintain its functionalities also in case of hardware failure; besides, each working problem can be auto-diagnosed, and it is possible to perform a number of actions in case of malfunction, e.g. sending alert messages.

.onID is characterized by its:

- **lightness:** it has no minimum system requirements thanks to a scalable and concurrent architecture
- **adaptability and flexibility:** it can be managed by a Cluster Oriented system providing high reliability and Business Continuity guarantee during criticalities or stoppage periods, thanks to the possibility of alternative devices fast configuration
- **Open Source nature:** the product can be updated with new features and assure further benefits to meet growing needs

FEATURES

Software:

O.S.: Windows XP, 2003 Server, Vista, Windows 7, GNU/Linux and other Unix-like platforms which support Java, e.g. Sun Solaris

Databases: MS SQL Server, Oracle, Sybase ASA/ASE, MySQL, PostgreSQL, generic ODBC databases (under MS Windows), AS400

Open platform and Unlimited extensibility through available SDK

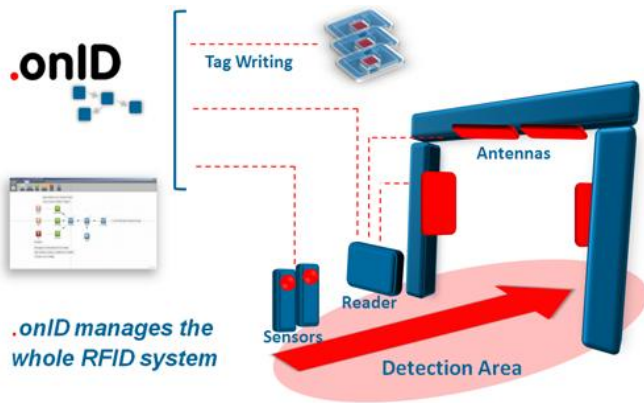
Hardware:

Readers: Alien ALR-8800 and ALR-9800, Symbol XR-480EU, Intermec IF61 and IF30, Impinj LLRP-based reader, Caen Fixed Readers

Printers: Toshiba, Datamax, Sato

Mobile devices: RFID enabled PDA, via http protocol

Other devices: sensor, actuators, physical devices



.onID brings this paradigm one step forward. From the readings' point of view, it is possible to acquire data not only from RFID readers, but also from many other sources like, for example, barcode readers, photocells and access controllers; but also database triggers, scheduled events or inputs generated by users.



These data, crossed and processed according to logics which can be defined in the most granular way, can be exported outwards in a variety of ways (calls to a Web Service, writing on database, rough data flow, writing and moving of ASCII files, etc.), but can also pilot a wide series of events (via e-mail/SMS notifications, RFID printers or barcode commands, and even signal executors, physical gates, barriers and traffic lights).

.onID can therefore constitute the central control point for all those processes which do not require interaction by users, and request, on the other hand, decision autonomy by the application, assuring responses in fast and punctual times.