



Platform Technical Overview

Platform Offerings:

- RFID
- RTLS
- Workflow and Business Engine
- Track and Trace
- Scheduling
- Real Time Messaging
- Dispatch and Command Center
- GIS and Mapping
- SMS Notification
- Sensory Networks

Background

AiRISTA develops and delivers a wide range of turn-key solutions incorporating RFID, RTLS, GPS and related technologies that enables real-time management of mobile personnel, assets and resources to government and commercial clients. With our robust and comprehensive Track and Trace solutions, clients realize a reduction in resources, manpower, cost and errors while benefiting from increased visibility, efficiencies, productivity, safety and budget savings.

AiRISTA Product Offerings

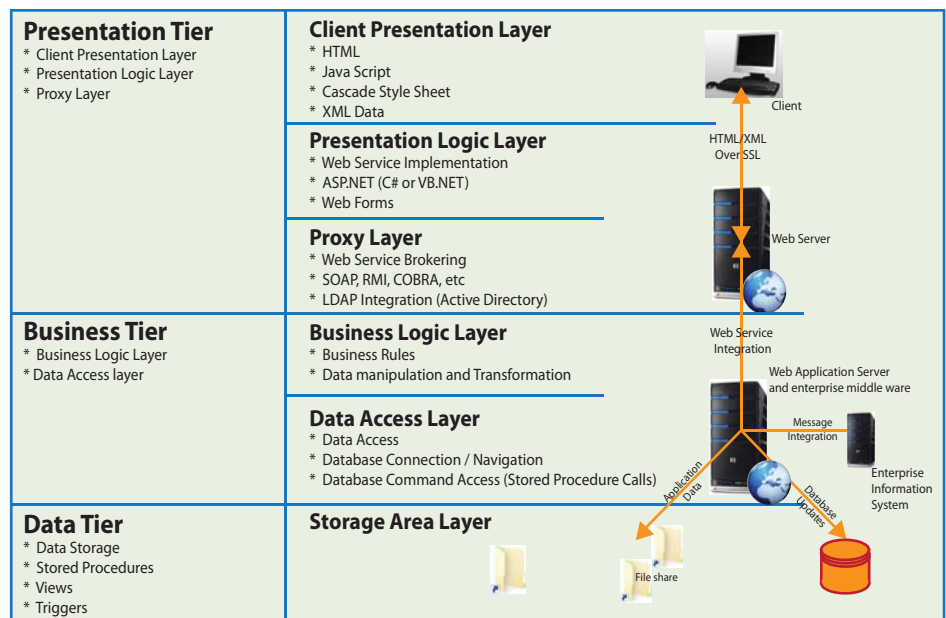
Other RTLS solutions rely on a single technology to interrogate active RFID tags for location determination and can offer accuracy of several to tens of feet in best case scenarios. AiRISTA's RTLS platform marries several popular technologies including RFID, RSSI, TDOA and GPS with two patented location determination technologies to provide one of the leading indoor and outdoor location tracking solutions available in today's marketplace. In many cases the level of accuracy is within six to seven feet. AiRISTA's RTLS platform offers multiple RTLS engines that may be deployed individually or in concert depending on the application and the needs. This interoperability of multiple engines effectively increases accuracy levels within a single configuration utilizing passive, semi-passive and active tags.

AiRISTA Architecture Overview

The AiRISTA Platform is based on the Service-Oriented Architecture (SOA) which, depending on the implementation, could be an n-tier solution (4 or 5). Tiers include client, web server, application server, database server and optional 5th tier of data-center servers.

This architecture approach supports scalability according to your requirements. For example, as data volumes grow, you can allocate storage to the database. As the numbers of users increase, you can add additional application servers, or add additional CPUs to existing servers to handle the additional load.

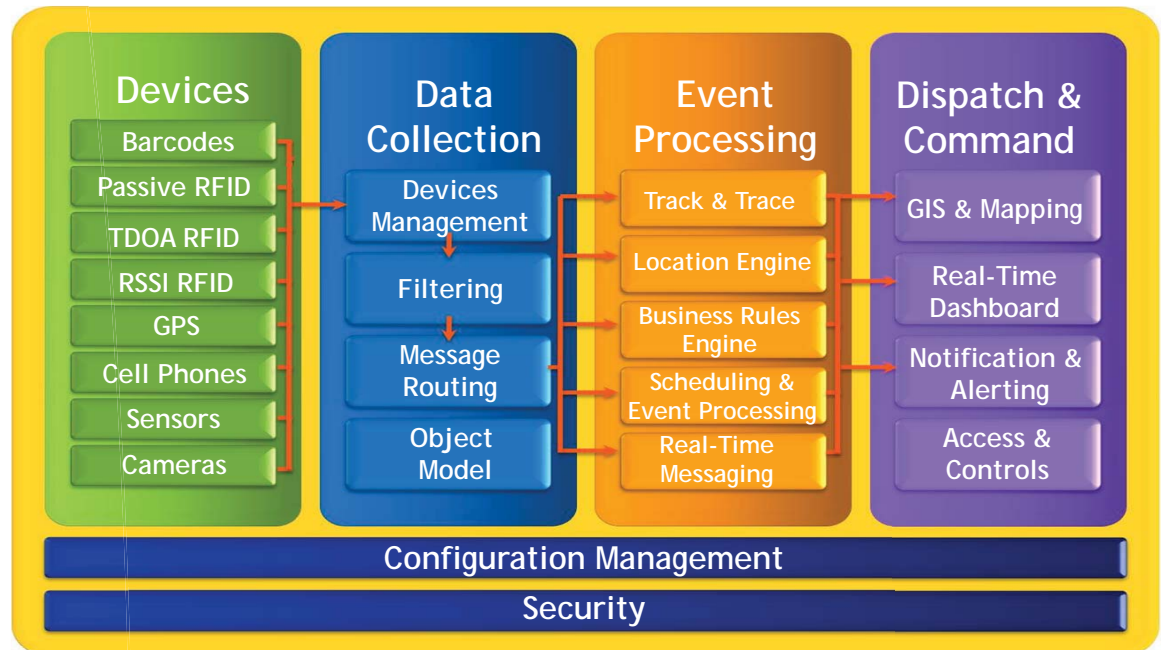
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AiRISTA Event Processing

The AiRISTA Platform addresses a common challenge, that is, the ability to extract actionable intelligence from disparate event sources in real-time. The diagram Below depicts how the AiRISTA Platform processes event information. The AiRISTA Platform provides event collection, filtering, routing and distribution, enrichment, storage, and analysis tools. The AiRISTA Platform can collect events from a wide range of sources using industry standard protocols like SNMP and XML, as well as, applications like a message bus, databases, message queues, and Windows event logs.



Devices & Data Collection

Event information enters the AiRISTA Platform at the “Device” level. With it’s generalized device management and object modeling, the AiRISTA platform achieves unprecedented levels of support for environments consisting of heterogeneous devices.

Event information can be filtered or suppressed to assure the AiRISTA Platform isn’t wasting resources on extraneous information. Valuable events can then be routed to multiple event processing components for processing, storage, and action.

Event Processing

Event information is processed both in the Data Collection and later in the Event Processing layer. Rules & workflow, trigger events & schedules, and location engines are all used to model the business logic. Any combination of logic can be applied to the whole set of events or specific events. The event processing is performed with both historical data and real-time events, giving the ability to easily identify and solve complex, enterprise-level problems.

Dispatch & Command

After processing, event occurrences are routed to subscribers to the AiRISTA Platform. Access to events information can be restricted to specific user communities or method of access. Event information has been enriched with naming conventions so that it can be archived and later accessed to display event history. Event information can also be displayed on maps, routed to voice or e-mail, or displayed as a real-time dashboard.



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