

# Reva-4-Healthcare



Passive RFID infrastructure solution designed to support healthcare tracking applications by integrating seamlessly with AeroScout's MobileView track and trace platform



## AT-A-GLANCE

### SOLUTION PACKAGES FOR TRACKING:

- PEOPLE  
Outpatients/Visitors  
Hospital/Clinical staff  
Inpatients
- ASSETS  
Medical equipment and systems  
Laptops/PDAs/mobile devices  
Service items (wheelchairs, stretchers)
- CONSUMABLES AND SINGLE USE ITEMS  
Medication, food, breast milk  
Stents, disposable devices  
Specimens and fluid bags

## BENEFITS

- Improve patient satisfaction and staff efficiency
- Illuminate operational inefficiencies
- Enable assessment of key hospital operational metrics
- Produce better asset management
- Enable new asset tracking solutions

## OVERVIEW

Reva-4-Healthcare is an RFID infrastructure package designed to integrate seamlessly with AeroScout's MobileView track and trace application platform. It is the first passive RFID solution designed to support healthcare tracking applications.

Reva-4-Healthcare allows passive RFID tags to be used for tracking critical items that until now have been difficult or impossible to include in Real-Time Location Systems (RTLS) healthcare applications. Existing solutions have used active RFID tags, while the new Reva-4-Healthcare solution complements active RTLS-based solutions by enabling the use of passive tags to track resources including assets, consumables and people.

Passive RFID tags do not require batteries and are economical enough to be used for tracking disposable and consumable items such as fluid bags, specimen vials, and single-use medical devices such as stents. Items requiring sterilization can also be tracked using passive tags packaged to survive the chemicals and heat of sterilization systems. Since passive tags can be produced in thin and flexible form factors, they can also be used to create labels and wristbands expanding the realm of trackable healthcare-related assets to include medications or people.

Healthcare applications that leverage RTLS capabilities can improve patient satisfaction and safety; they can also improve efficiency and save money. Specific benefits are realized in a variety of ways such as reducing of the incidence of preventable medical errors; monitoring compliance with equipment procedures or other hospital protocols; enabling the assessment of key hospital operational metrics including response times and treatment schedules; raising critical asset utilization rates and reducing the loss rate of expensive biomedical equipment.

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## SYSTEM COMPONENTS

Reva-4-Healthcare provides the passive RFID tag and location infrastructure solution for AeroScout's MobileView unified asset visibility application. It consists of a set of three components:

### Reva Systems' Tag Acquisition Processor (TAP)

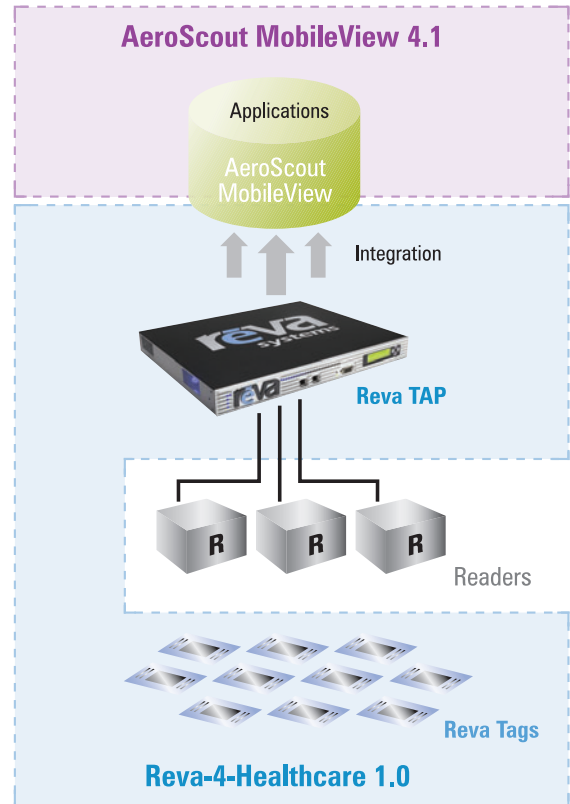
The TAP controls passive RFID readers and provides location-based observations of passive tags to MobileView. The TAP's Passive RFID Real-Time Location Engine uses data from multiple readers to accurately determine the position of assets with passive tags. The Reva-4-Healthcare Configuration Utility is used to configure the TAP for use with passive readers and MobileView.

### Passive RFID Readers

Passive RFID readers are installed in locations where passive tags need to be read. Locations include interior and exterior doorways, laundry chutes and supply cabinets. The readers send tag observations to the TAP for processing. Readers are available in a variety of fixed and mobile form factors, and Reva Systems can recommend the appropriate reader(s) for your application.

### Passive RFID Tags

Passive RFID are available in a variety of sizes, shapes and styles. Some tags are designed for specific applications, such as IT asset tracking or for use in autoclaves. Reva-4-Healthcare includes passive RFID tags specifically qualified for various healthcare applications.



#### US Headquarters

Reva Systems  
3 LAN Drive  
Westford, MA 01886 USA  
Tel: 978.392.3663  
Fax: 978.392.0407  
Web: [www.revasystems.com](http://www.revasystems.com)

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