

# Introduction to Nebula

Laptop Tracking System

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# About Us





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- NeoTechID is a provider of **Business Automation Solutions** based on AIDC technologies such as RFID, bar-code scanning, biometrics, NFC and smart cards.
- NeoTechID was founded in 2009 with a **Vision** of filling the void between the limited capabilities of hardware resellers and the client's requirement of a total solution approach to their needs.
- We offer **Operations Visibility** and **Process Optimization** through innovative use of AIDC technologies to track various assets, integration of AIDC devices with back-end systems and in-house consulting, to maximize business gains
- We aim to become the most preferred and trusted partner for such solutions by providing **Innovative, Reliable** and the most **Cost-effective Solutions** based on latest technologies that will result in better ROI for our clients



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# Application and Industry Focus

Industry	Solution
 <b>Jewellery</b>	<ul style="list-style-type: none"><li>• RFID based Automated Stock Counting / Verification Solutions with integration to exiting POS applications / ERP systems</li></ul>
 <b>Manufacturing</b>	<ul style="list-style-type: none"><li>• Warehouse automation and mobility solutions with integration to SAP</li></ul>
 <b>Corporate Offices</b>	<ul style="list-style-type: none"><li>• Fixed Asset Management &amp; Tracking</li><li>• Laptop / Employee Movement Tracking</li><li>• IP-surveillance, Access Control</li></ul>
 <b>Custom Applications</b>	<ul style="list-style-type: none"><li>• School Bus and Students Tracking</li><li>• Event Delegate Management</li><li>• Laundry Management etc.</li></ul>

# Application Focus – Laptop Tracking

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## CHALLENGES

- No visibility for presence of laptops
- Person/Employee needs to declare his/her laptop to the security before entering the premise
- Laptop theft and more importantly, 'Data theft' on the rise
- Time consuming process to accurately track laptops
- Unavailability of real time information



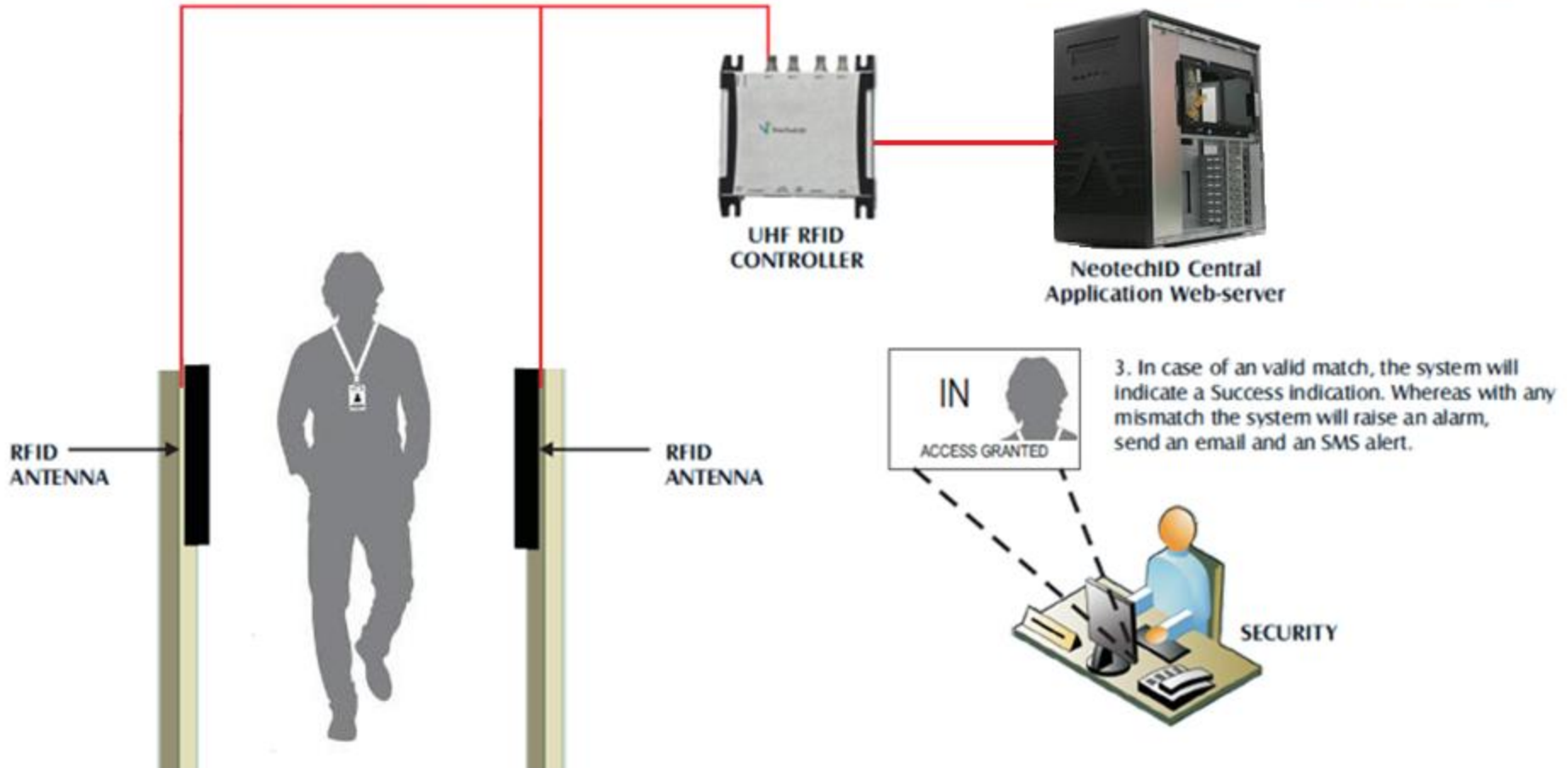
# Defining Requirements

GOAL	KEY QUESTIONS	REQUIREMENTS
<b>Laptop Management</b>	<ul style="list-style-type: none"><li>• Where is the Laptop?</li><li>• Is the right person carrying the right laptop?</li></ul>	<ul style="list-style-type: none"><li>• Accurate and Real Time Laptop presence notification</li><li>• Linking the laptop bearing with the laptop assigned</li></ul>
<b>Cost Reduction</b>	<ul style="list-style-type: none"><li>• How can I increase the efficiency?</li><li>• How can I reduce time?</li></ul>	<ul style="list-style-type: none"><li>• Transaction logging</li><li>• Better inventory control</li><li>• Elimination of Queues</li></ul>
<b>Optimized Process Flow</b>	<ul style="list-style-type: none"><li>• How do I reduce number of manual processes?</li><li>• How do I create links between systems?</li></ul>	<ul style="list-style-type: none"><li>• Multi use readers and tags</li><li>• Standardised implementations</li></ul>
<b>Improved Customer Satisfaction</b>	<ul style="list-style-type: none"><li>• Where can I automate my system?</li><li>• How do I reduce errors?</li></ul>	<ul style="list-style-type: none"><li>• Laptop data and identification linked to backend operations</li><li>• Controlled transaction flow</li></ul>

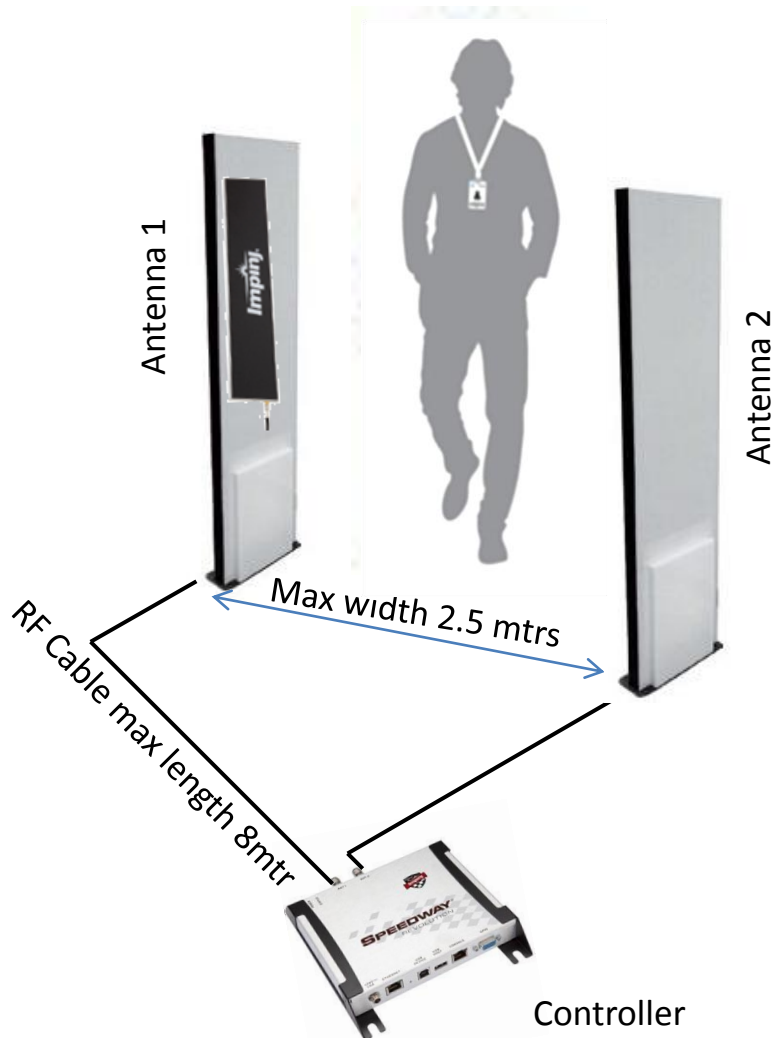
# Solution Overview: How It Works

1. Person moving In/Out of the premises.  
The employee ID card as well as the laptop is scanned by RFID antennae.

2. The data is sent to the NeotechID Central Application which matches the laptop with the employee database to ensure that the right person is carrying the right laptop.

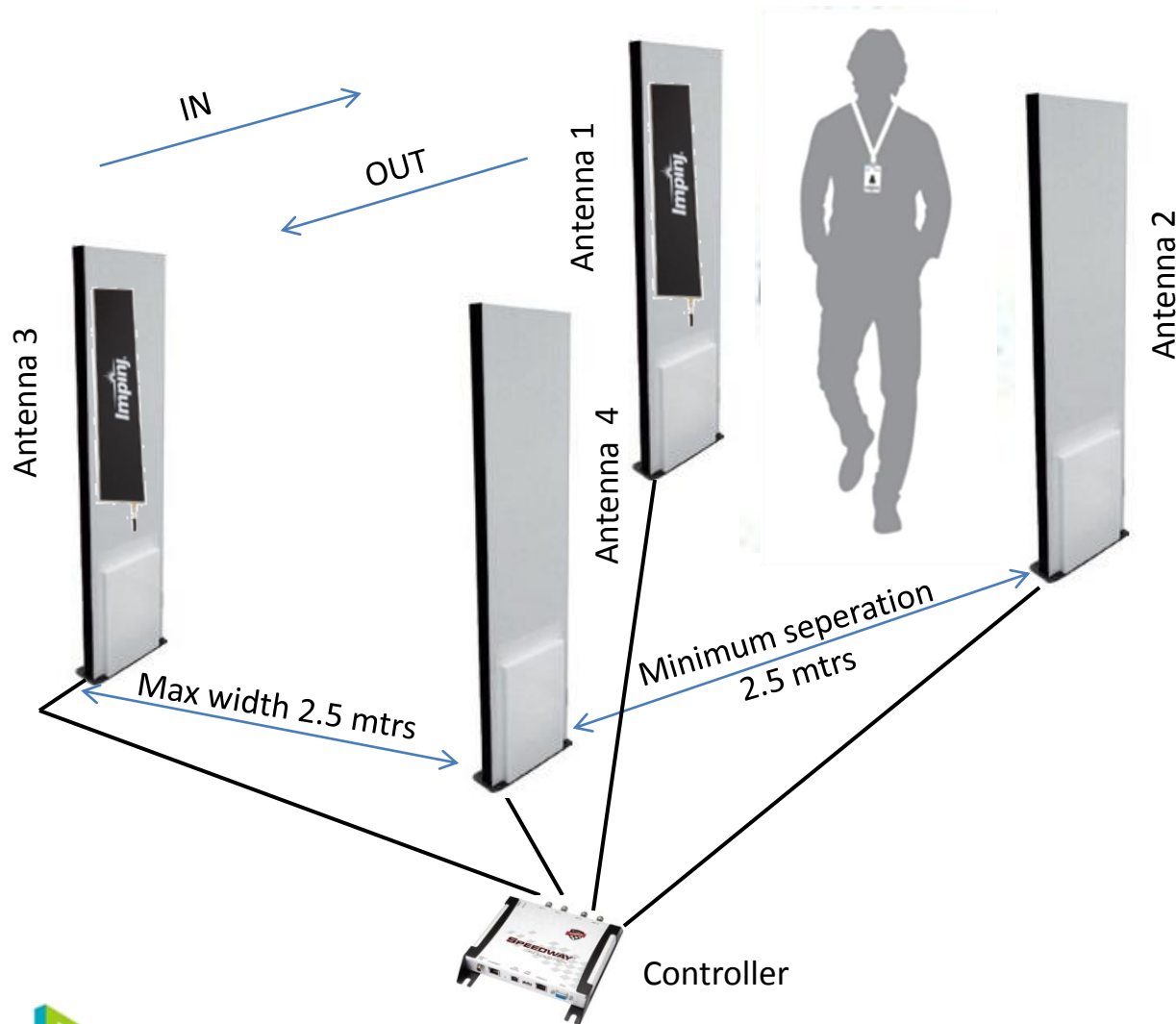


# IN-OUT Detection (Software Based)



- Every alternate detection is considered as IN and OUT
- Although the tag may be read several times as the person walks through, only one read to be considered.
- Multiple detection within a specified time period to be neglected

# IN-OUT Detection (Hardware Based)



- Two sets of antenna placed on either side of the gate
- IN => First detection by antenna 3/4/both followed by detection by antenna 1/2/both
- OUT=> First detection by antenna 1/2/both followed by detection by antenna 3/4/both



# Alert Mechanisms



Visual Alerts



Audio Alerts

RFID ANTENNA



RFID ANTENNA



Computer based  
On-screen Alerts  
/ Email Alerts /  
SMS Alerts

# Solution Benefits

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- Reduced average processing time by up to 50%
- Reduced labour by up to 20% while increasing throughput
- Reduction in lost laptops/data
- Real-time and historical asset tracking information
- Improved data accuracy
- Auto IN-OUT tracking of laptops
- Easily scalable to include features such as access control and time and attendance monitoring



# Screenshots

The screenshots display the NeoTechID web interface. The top screenshot shows an 'Invalid Out Entry' for an employee named Neha. The bottom screenshot shows a 'Valid In Entry - Invalid Out Entry' for the same employee.

**Invalid Out Entry**

**Valid In Entry - Invalid Out Entry**

Employee Name	Employee ID	Shift	Start Date	Time	Photo	Employee Name	Employee ID	Shift	Start Date	Time	Photo
Neha	20020000000000000000	NP	2012-01-11 12:00:00			Neha	20020000000000000000	NP	2012-01-11 12:00:00		
Neha	20020000000000000000	NP	2012-01-11 12:00:00			Neha	20020000000000000000	NP	2012-01-11 12:00:00		

# Our Value Proposition

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- Expertise in RFID and practical experience gained through our projects.
- Knowledge Centers made up of our IT engineers, advanced equipment, and consultants are able to derive the best solutions for our clients.
- Support Infrastructure comprising of software and hardware channel partners help achieve client satisfaction every single time.
- Focus on consistently meeting the expectations of our customers and more. We do our level best to offer you a solution that not only meets your requirements but is also cost effective.



# Partners

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# Thank You

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