

Cisco Partner Solution Guide Outline

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Provider

Company name: Remote Tracking Systems, Inc. (RTS)

Product name: Remote Tracking System

High-level description of product: RF-based GPS tracking system for long-range, real time location reporting of pedestrian and vehicle assets. This provides Security Operations Centers (SOC) with the capability to know the exact location of the first responders and their vehicles at all times. It also provides the Identification of Friend or Foe (IFF) where secure areas are monitored volumetrically by sensors such as radar and video analytics without presenting an alarm event to the Intrusion Detection System (IDS).

Vertical: Aviation

Section 1 – “The Challenge” Commercial aviation SOCs continuously monitor the Security Identification Display Area (SIDA) and the airfield perimeter using active systems such as radar, video analytics, fence protection systems, microwave sensors, and video surveillance cameras to detect activity that would require a response from the security force. A serious challenge facing the operators in these SOCs today is in being able to quickly assess the nature of an event triggered by one or more of these systems and perform the required dispatch functions as quickly as possible. Many alarms are generated by authorized personnel and eventually considered nuisance alarms. In cases where access is authorized for a specific location of the airfield, the SOC operator has no method available to identify if the person or vehicle is in compliance with those access restrictions or not. How does the operator determine that the alarm being generated by the radar or perimeter IDS isn’t an authorized TSA officer or maintenance personnel? The typical response to these scenarios is to determine the actual location, perform a visual assessment, and/or dispatch units to confirm. This response limitation only serves to distract SOC operations, waste valuable response resources, and ultimately attenuate security monitoring capabilities. Additionally, a lack of awareness of the location of first responder assets for incidents requiring immediate response introduces unnecessary risks through a delayed response.

Section 2: "The Integrated Solution" Many commercial aviation facilities already employ a geospatial command center environment, which provides alarm event locations as well as various levels of situational awareness. Systems such as Intergraph and VidSys have the necessary architectures to process geospatial data from other systems. The integration of a secure remote tracking system that has sufficient range and low cost for deployment and operation could provide the solution to the above stated challenges. The proposed solution incorporates an RF-based communications backbone with compact battery-powered field units for pedestrian and vehicle assets. The field units provide real time location updates to the Base Transceiver, which provides the data to the Command & Control system for display.

Section 3: "The Value Proposition"

For commercial & DoD aviation security managers who need to know where their security force assets are located at all times and to prevent those assets from generating security system alarms, the RF-based GPS remote tracking system is the product that provides a secure, cost-effective and fully- integrated solution for managing the location of security forces as they move and operate within the security domain. Unlike RFID solutions, the RTS product does not require costly infrastructure and lengthy delays to become operational. Unlike cellular solutions, the RTS system does not require monthly subscription fees for each device or the dependence upon a third party carrier.

Improved Operational Efficiency –

- Elimination of all alarm events associated with authorized personnel
- Faster response to actual events that require a response to mitigate a threat
- Display of all security assets at Command & Control UI
- Reduces communication traffic between SOC and first responders

Increased Situational Awareness –

- Authorized personnel locations are known at all times
- Unique ID for each unit shows Photo, Name, ID, Company, Armed, etc for each user or vehicle
- “Man-Down”, “Duress”, or “Unavailable” display and notification capability
- “Lost/Stolen” unit display

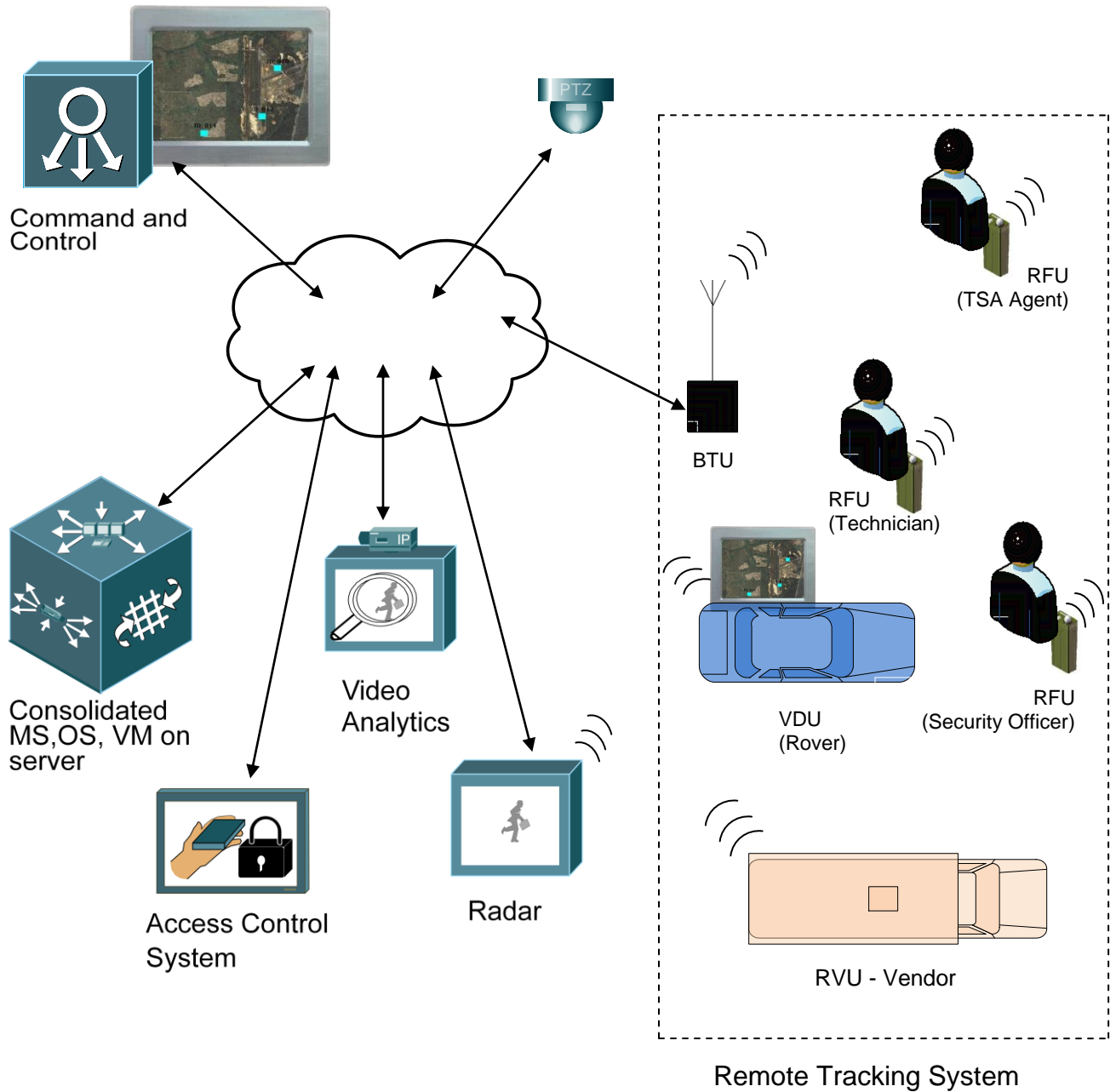
Eliminate Deployment & Operational Costs –

- Can be deployed in less than 24 hours
- Long Range (2 – 10 miles)
- Rechargeable field units (20 hours per charge, nominal)
- Simple operation, no training required for field personnel
- No additional deployment costs, licensing, or cellular fees required

Section 4: "Solution Components" The RF-based GPS remote tracking system is comprised of a Base Transceiver Unit (BTU) and one or more portable field devices including Remote Field Units (RFU) for pedestrians, and Remote Vehicle Units (RVU) for vehicles. Repeater Units (RPT) are used to extend the overall range of a particular system. Vehicle Display Units (VDU) provide in-vehicle situational awareness via LCD display. The BTU aggregates all field unit data and manages communications while also providing XML packets containing geospatial, ID, and associated metadata to the Command & Control System. Each device can update its position once every second.

The Command & Control system is able to manage alarms from radar, video analytics, and access control systems that are generated by authorized personnel wearing the IFF devices. The alarm notifications can be made to uniquely identify the event as "Authorized" and the display icons can be configured to clearly distinguish the alarm event from an event that requires a response. In fact, the system can be configured to completely silence any alarm events generated by authorized personnel operating in their respective authorized areas.

Section 5: Block Diagram.





Section 6: "About your Company"

Remote Tracking Systems, Inc., based in Phoenix, AZ, is a leading provider of commercially available remote tracking systems. Specializing in the design and manufacture of long range RF-based wireless GPS tracking systems, RTS provides a suite of fully integrated, real-time GPS tracking products for industrial, military, and government clients. We serve a variety of customers with cost-effective solutions to real-time GPS tracking requirements.

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