SIMPLYRFID US PH CN

PAWN Inventory System

Pogi
Find your equipment

Aura
Automated Tracking

Wave
Squeeze and update

Nerv
Monitor & Command

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Peel - Stick - Track

Inventory Management Has Never Been Easier.

PAWN Process Overview

Workflow

1. Tagging

a. Items are manually tagged with either a permanent adhesive RFID tag or a temporary hanging RFID tag.
b. Items are associated via an RFID tag ID and an asset ID. The Asset ID originates from a separate solution / property management system as the link between the RFID system (SimplyRFiD) and the ERP / Inventory Management System

SIMPLYRFID Pogi Server		Third Party ERP System	
RFID TagID	AssetID	AssetID	Product Data
1234567890123456789	8888	8888	...

c. Items can be linked via a manual web page data entry on the SimplyRFiD Pogi server or via the SimplyRFiD WAVE Handheld RFID / Barcode Reader
    i. Process
        1. Scan AssetID or manually enter
        2. Scan RFID TagID
        3. Save.
        4. Item is now registered for tracking in SimplyRFID Pogi Server

2. Tracking and Reporting

a. Items are automatically recorded as they pass tracking locations. Movement data is stored in the SimplyRFiD Pogi Server
b. Items can be manually located via the SimplyRFID WAVE Handheld. The WAVE Handheld can take an offline inventory, and sync that inventory to the Pogi Server to update last known location.
c. Item movement history is stored in Pogi and may be exported via JSON and CSV or viewed as an HTML page

RFID TagID	AssetID	Last Seen	Location	Status
1234568901234567890 1234	8888	10/1/2019 9:00am	Property	Present
1234568901234567890 1234	8888	10/1/2019 9:03am	Product Support	Present

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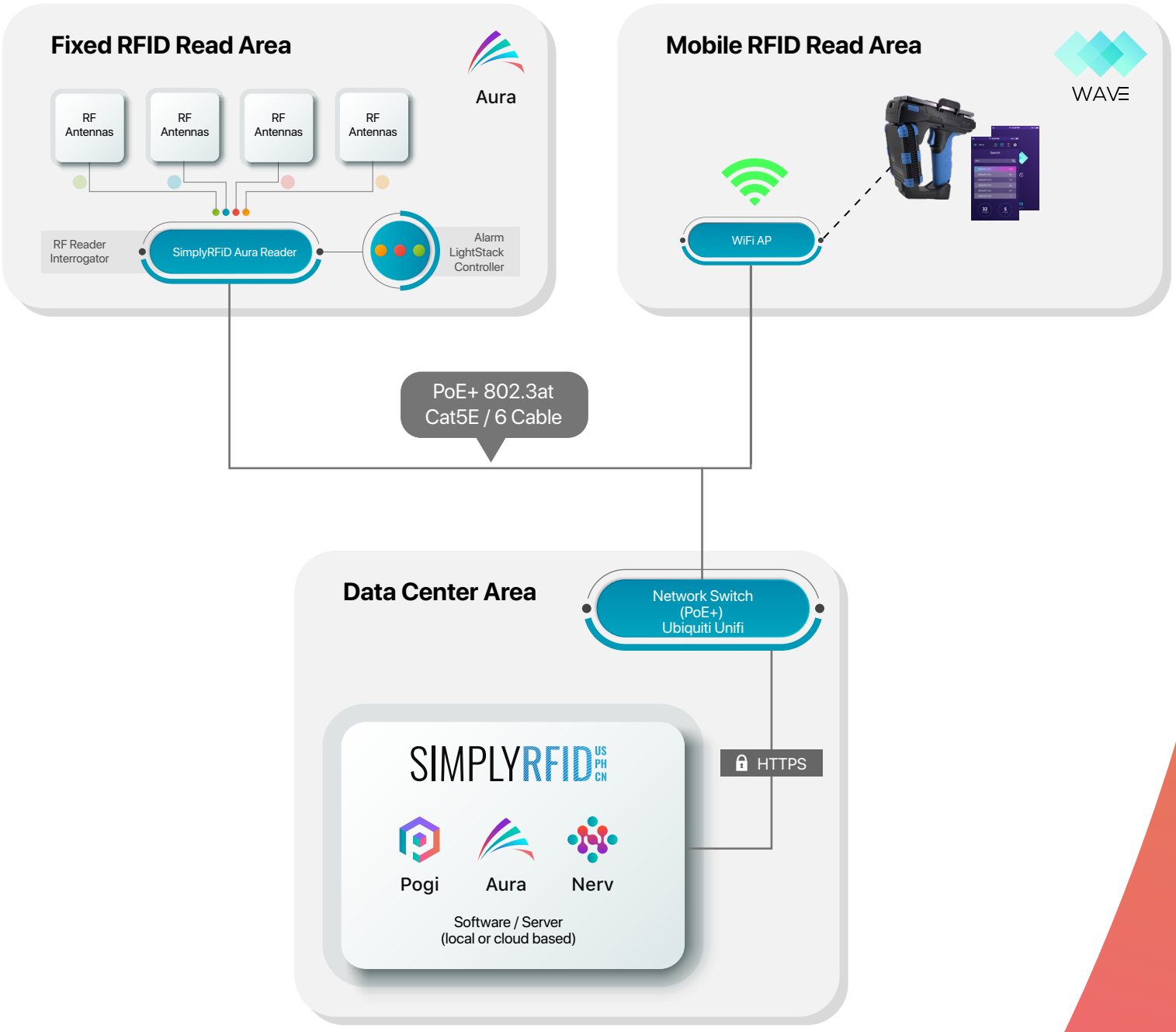
Interconnect Overview 2019



POGI - *Data manager for RFID tags*

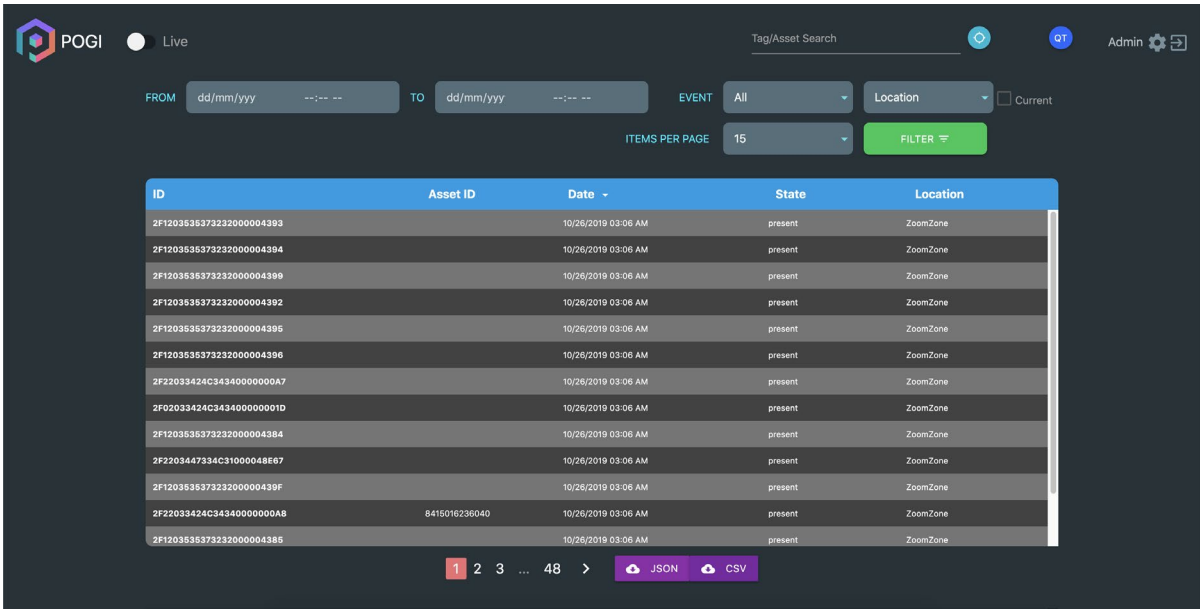
Pogi is a web-based server that stores RFID tag data and tag movement/inventory events. Pogi doesn't act on the data, it is optimized to rapidly store and search data. Pogi produces reports via automation (bots via API) or to an end user running a web UI.

Additional modules query Pogi to run complex reports (real time mapping, alarms, workflow) and may be integrated with cubing or data mining storage for heavily complex queries.

RFID Tag Information stored:

- Tag ID
- Asset ID
- Read Date
- Tag State
- Location

- **OS:** Ubuntu 18.04, Yocto 4.14, Raspbian Buster
- **Languages:** Python 2.x
- **Support Applications:** UWSGI, nginx, MySQL
- **Communications Security:** TLS, fail2ban
- **API:** HTTPS/REST, Push notifications
- **Scale:** Allows split data feeds for infinite scalability



AURA - *RFID tag reader and raw data*

Aura manages thousands of RFID tag reads per second in a central or distributed environment. Aura runs directly on an edge (at the edge of the network, in the middle of the action) RFID reader to minimize network traffic and reduce central server load.

Features:

- **Sticky:** Evaluates tag movement based on how near it is to each antenna for more accurate location information.
- **Muxing:** Combines multiple antennas in to a logical zone for more accurate coverage.
- **Linger / Flicker:** Prevents weak tags from jumping from antenna to antenna ('absent-present-absent').
- Manages edge light stacks, alarms, and buzzers on-reader.

OS: Ubuntu 18.04, Yocto 4.14, Raspbian Buster
Languages: Python 2.x, c
Support Applications: UWSGI
Communications Security: TLS, fail2ban
Hardware: CSL CS463, SimplyRFiD Light Stacks and Alarm System
API: HTTPS/REST, Push notifications

CSL CS463 Reader

WAVE - *Handheld RFID and Barcode for mobile inventory*

Wave allows users to perform audits and inventories. Wave can take multiple inventories offline and sync or inventory and audit in real-time. Multiple Wave handhelds can connect and share data to a Pogi server.

Wave also makes it easy to associate tag items using QT (Quick Tag). A search capability helps narrow down where an item is located.

OS: iOS 13+
Languages: Objective-C
Support Applications: CSL Objective-C library, CS108-2 Handheld
Hardware: iPod Touch, CSL CS108 Handheld
API: HTTPS/REST, Push notifications
Battery Life: 4 hours continuous use, or better

NERV - *Monitor, command & control deployed Aura units*

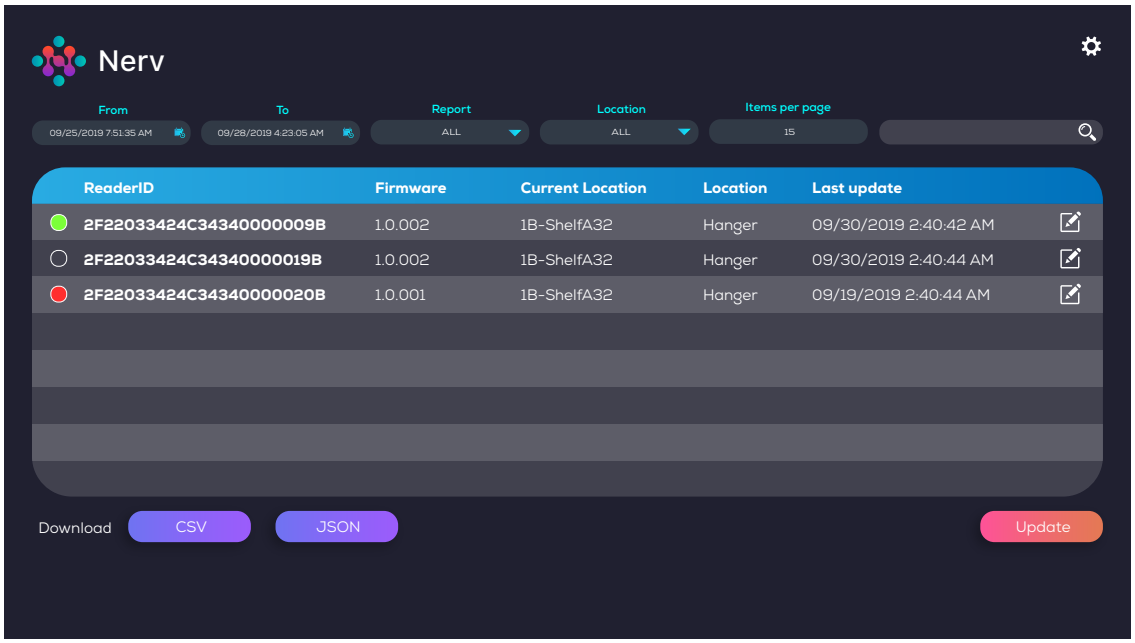
Nerv manages and monitors deployed devices. Latency, network health, unit health (memory and CPU) are all managed on a central dashboard. Updates can be pushed to readers, with a single click, making PAWN system management easy.

A. Nerv Server

OS: Ubuntu 18.04, Yocto 4.14, Raspbian Buster
Languages: Python 2.x, MySQL
Support Applications: UWSGI, nginx
Communications Security: TLS, fail2ban
API: HTTPS/REST, Push notifications

B. Nerv Client

OS: Ubuntu 18.04, Yocto 4.14, Raspbian Buster
Languages: Python 2.x
Communications Security: TLS, fail2ban



Installation

Typical Self-installation Plan. Full turn-key installation also available.

End User:

- Provide and install CAT5E/CAT6 cables to each area needing an automatic RFID Aura reader
- Mount the RFID Readers
- Mount the RFID Antennas
- Mount the WiFi Access Point for WAVE access
- Place the server / switches in a secure location

SimplyRFiD:

- Document the location / place to install each antenna, reader, and tag
- Label all equipment for proper placement
- Provide same-day telephone and email support during installation
- Provide primary mounting hardware (brackets). End user may need additional screws/bolts depending on mounting location (drywall, cinder block, cement, or ceiling tile)