

## Traffic Based **Detection of Endpoints**

What is connected to your network?



*“Given that many Internet-enabled devices have the ability to connect to many IoT systems, the possibility of unauthorized or malicious connection to an IoT system is a very real threat”*

**Department of Homeland Security OTS  
Securing the Internet of Things**

*“There is currently no reliable method for IoT system security managers to detect and garner timely, dynamic, valid and comprehensive awareness of all components connected to and/or affecting their infrastructure” DHS OTS*

### IoT Security Challenges

IOT infrastructure has more unique challenges than the traditional network infrastructure.

1. Scale (millions of endpoints in a given network)
2. Some IOT Sensors are not built using standard protocols
3. Plethora of sensor manufacturers across the globe using custom protocols to send and receive messages.

### What is Pulze End Point Detector?

The Pulze Endpoint Detector detects endpoints at various layers of OSI stack. It has the ability to detect across different mediums such as Ethernet, WIFI, Bluetooth, and LoRa.

It's fully configurable to glean information from any type of protocol packets. Since it uses generic models for parsing, there is no need to develop code for every protocol the user may be interested in. Further, detected Endpoints are designed to be stored in a database in a consumable format.

**Request for a copy of Detector at**  
[sales@pulzsesystems.com](mailto:sales@pulzsesystems.com)

### Technical Features

- Detects all Endpoints that are communicating within the network
- Non-intrusive and Passive Detection of Endpoints
- Ability to understand Plethora of standard protocols
- Ability to understand any custom communication Protocol packets
- Configure any protocol information to glean without any coding
- Ability to compute, glean and analyze at the edge to tackle scale problem.
- Extract detailed Endpoint Information
- Get associated Endpoint information that the Endpoint is communicating
- Ability to achieve all the above using a light-weight product that can be easily deployed
- No library dependencies to build any new application on top of the information stored in the Endpoint Database.
- Visualize and perform all the above functionality using a simple Intuitive UI.

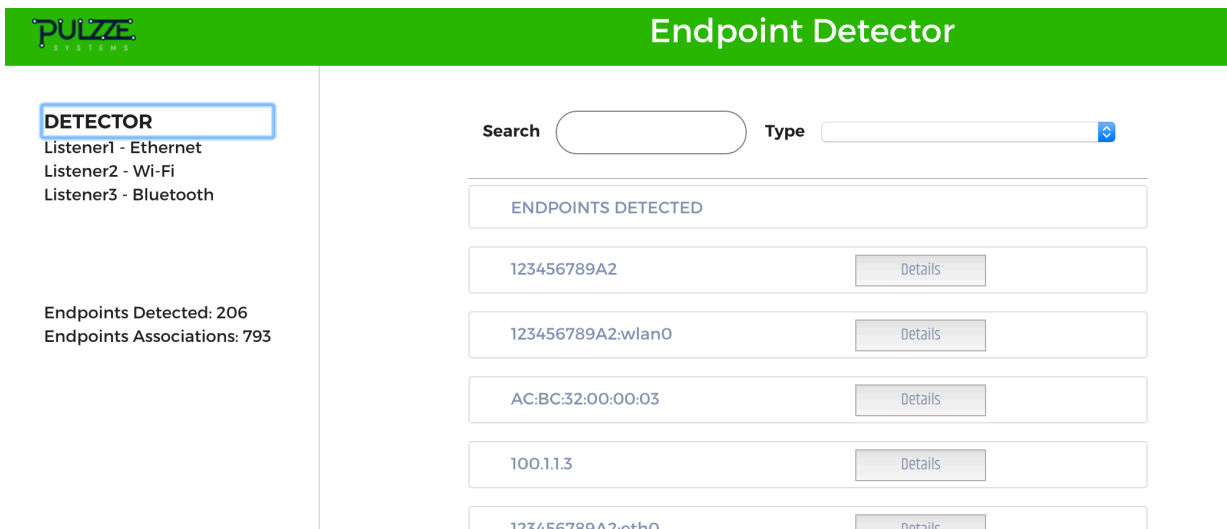
### Business Benefits

- Enhance security by knowing and understanding every device / End point connected to the network
- Know the number and type of devices / End points using the network
- Minimize cost on specialized program developers for every type of communication method
- Minimize the need for Expertise in deciphering Connected Endpoint Information
- Eliminate Developing code to parse different protocols, cost savings on development and maintenance.
- Build visualization and analytics solution using end point / traffic info
- Address the massive IOT security infrastructure market with minimal investments, new source of revenue

### Supported Protocol

- |             |               |
|-------------|---------------|
| (Available) | (Coming soon) |
| Ethernet    | LoRa          |
| Wifi        | Bluetooth-LE  |
| Bluetooth   | Zigbee        |
|             | LTE           |
|             | Custom RF     |

### Pulzze Endpoint Detector



The screenshot shows the web interface for the Pulzze Endpoint Detector. At the top, there is a green header with the Pulzze Systems logo on the left and the text 'Endpoint Detector' on the right. Below the header, there is a search bar with a 'Search' label and a 'Type' dropdown menu. The main content area is titled 'ENDPOINTS DETECTED' and contains a list of detected endpoints. Each entry in the list includes a unique identifier and a 'Details' button. The list shows the following entries:

Endpoint ID	Action
123456789A2	Details
123456789A2:wlan0	Details
AC:BC:32:00:00:03	Details
100.1.1.3	Details
123456789A2:eth0	Details

On the left side of the interface, there is a sidebar with the following information:

- DETECTOR**
- Listener1 - Ethernet
- Listener2 - Wi-Fi
- Listener3 - Bluetooth

Summary statistics:

- Endpoints Detected: 206
- Endpoints Associations: 793