

## Trusted/Secure Hybrid Software Programmable Multi-Waveform RFID Reader

### **Disclosure Number**

200501546

### **Technology Summary**

The present invention, Trusted/Secure Hybrid Software Programmable Multi-Waveform RFID Reader, combines the ultra reconfigurability and strong hardware-based "root-of-trust" authentication and machine attestation capability of a Trusted Hybrid Software Radio (incorporated by reference and described in EIDR# 203 submitted 4/15/2005), with optional sensors and actuators to create a secure, trusted, multi-waveform/protocol, frequency agile RFID Reader with sensor and optional locating capabilities (GPS and/or radiolocation) enabling multi-region, multi-frequency, multi-protocol operation and the ability to read a plurality of Tags with a single reconfigurable reader. It can execute a plurality of waveforms and communications protocols and is capable of dynamically switching among them via software. It is capable of global operation and interoperability with a plurality of Tags (with a variety of frequencies and communications standards).

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