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SYBor IoT Interoperability and Intelligent Video Surveillance Edge Computing Platform

Technology / Capability Overview:

The SYBor Technology Platform provides next-generation smart device automation and surveillance capabilities addressing security, privacy, safety and cost savings.



- Cloud-free - Less risk of: hacking, slow response times and outages
- Secure - Encrypted connections, User and device access restrictions
- Scalable - Supports geographically distributed facilities
- Interoperability - Smart devices doing smart things together
- Custom alerts - User definable surveillance or smart device event triggers, who and when to alert and by what means (e.g. in-app, email, SMS, push notification, etc.)
- Intelligence layer - Customizable rules to interact with the machine learning/AI models and complex event processing engine

Relevance to Combatant Command or other Need:

Category* : Domain Awareness

- Each SYBor hardware unit is relatively small measuring approximately 8"w x 9"d x 3.5"h
- Processors consist of up to 8 ARM cores (up to 1.6GHz) and up to 384 GPU cores and up to 8GB RAM
- Edge computing architecture means the platform is decentralized and resides where the data is generated
- Flexible user configuration to tweak the platform behavior as well as the ability to add various machine learning models for specific purposes in video analytics or device interoperability
- Real time autonomy so alerts are triggered when anomalies occur
- The SYBor app is compatible with Mac, Windows as well as iOS and Android mobile devices and tablets

Past Performance of Technology and Company:

Video streaming test results:

- We have tested a variety of combinations of encoding formats, resolutions, frame rates and audio with expected results.
- We have been able to record and index video footage from the test results above for later playback and searching.

Interoperability test results:

- We have been able to show user defined interoperability between device categories (e.g. safety lighting illuminated when motion detection is triggered) as well as alerting rules.

Global connectivity test results:

- We have been able to successfully connect to the SYBor platform from various places in the US and abroad using the SYBor app over internet and cellular connectivity.

Maturity / Scalability / Cost / Schedule

TRL : 5

We have multiple indoor and outdoor small scale field pilot sites.

SCALING CONSIDERATIONS:

Manufacturing in excess of 100 units/month possible. Hardware units are "stackable" to support larger geographically distributed IoT ecosystems or monitoring very large numbers of sensors.

TIME TO MARKET WITH CURRENT FINANCIAL PLANS:

We are currently only able to release limited quantities and features.

TIME TO MARKET WITH FINANCIAL ASSISTANCE:

Injection of \$2.5M will allow us to hire six engineers to accelerate our development cycle as well as allocate marketing funds to become cash positive between year three and four.