Connecting the Tactical Edge to the Enterprise

Physical to Digital (P2D) Solution

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Empowering Global Multi Domain Operations

LEGEND
- Headquarters
- Azure Cloud
- Mobile ground station
- Forward operating base Stack Hub
- Soldier with edge compute
- Analyst workstation
- Edge device peripherals
- Theater
Physical to Digital (P2D) – On Platform Data Extraction

- Collects data from multiple “black boxes”
- Normalizes data & transmits direct to Azure
- Eliminates “Human in the data collection loop”
- Provides Real Time Predictive Maintenance

“Brownfield” device
existing equipment or device

Guardian Module (1) (w/Azure Sphere)

Ethernet

Azure Sphere Security Service

OS updates from Microsoft
Brownfield device updates

Remote attestation & cert based authentication

Peerless Kinetic Wireless Mesh
Rajant Lx4 Hunstman series (Quad-band)

App data and telemetry:
Data to be streamed to Data lake that is accessible for any analytic capability.

Online failure reporting

Data Lake (Common Data Format)

App and OS updates

Ethernet

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Ethernet
Operational View 1

Hyperscale Government Clouds

- Commercial, NTM

- Government or Microsoft’s Private Fiber Network (ExpressRoute)

- Multi-int applications built on Azure Cognitive Services ingesting Tactical Edge data

Division/Corps/Brigade

- Multi-vendor / Multi-orbit resilient comms (GSaaS)

- Multi-level Rugged Data Center available in an accreditable form factor

Battalion/Company/Platoon

- Same multi-int applications running at the tactical edge