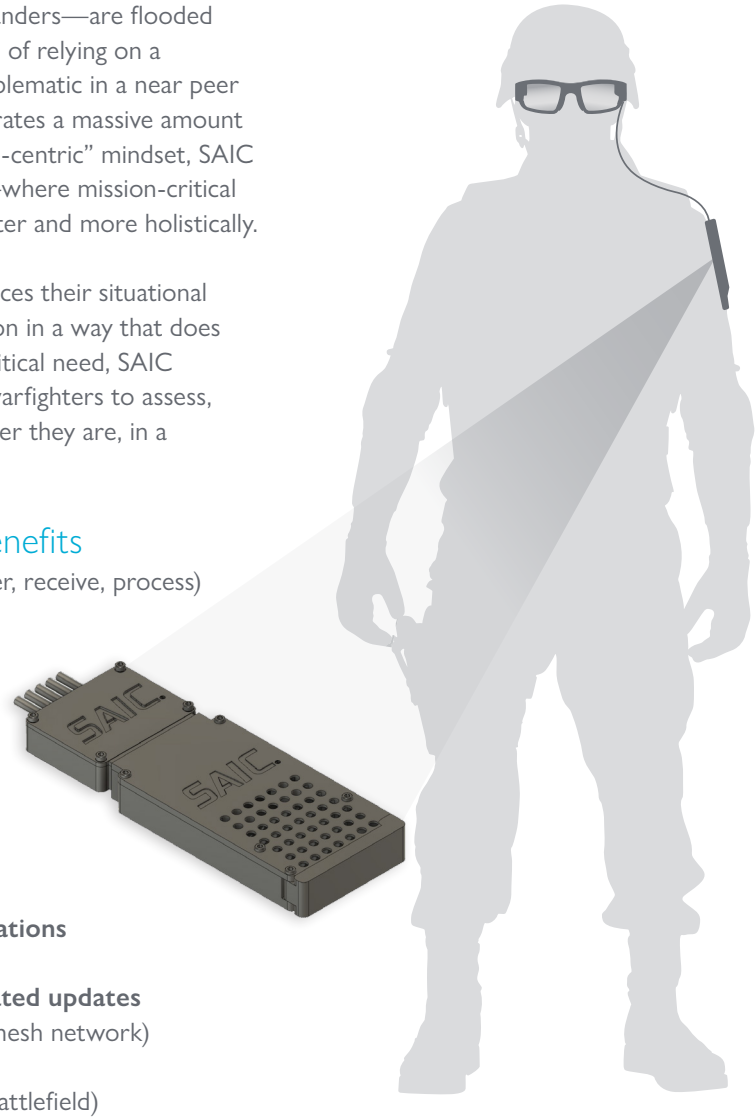
SAIC TACTICAL VIRTUAL ASSISTANT

Today's warfighters on the tactical edge—and their commanders—are flooded with data they can't use. The traditional net-centric pattern of relying on a network connection for centralized compute power is problematic in a near peer threat scenario where Internet of Things and sensors generates a massive amount of data that requires sorting and prioritizing. With an "edge-centric" mindset, SAIC brings compute power and capability to the tactical edge—where mission-critical information can be received, aggregated, and processed faster and more holistically.

What warfighters need is an integrated solution that enhances their situational awareness, navigation, communications and target acquisition in a way that does not overwhelm their cognitive capability. To address this critical need, SAIC developed a wearable tactical virtual assistant that allows warfighters to assess, process, receive and communicate battlespace data wherever they are, in a connected or disconnected environment.



SAIC's Tactical Virtual Assistant features/benefits

- Comprehensive **data solution** at the tactical edge (gather, receive, process)
- Wearable **AI-enabled compute** device
- Augmented reality, **hands-free** interface
- **Interoperable** with multiple end-user devices
- **Improved situational awareness** with blue/red force picture
  - **Offline map** rendering
  - **Voice to text** messaging
  - **Sensor integration**
  - **Navigation** and logging
  - Device heartbeat for **disconnected/connected operations**
- **Hardware agnostic**: Linux/Windows
- DevOps **CI/CD docker** container pipeline with **automated updates**
- **Mesh networking** (add/remove team members within mesh network)
- **Mesh communication**: LoRaWAN, Wi-Fi, tactical radio
- **Message synchronization** (near-real-time view of the battlefield)
- **Peer-based data propagation** (self-reporting streaming sensors)
- **Kafka on-body flight data recorder** (data retrieval, analysis, insight and playback)

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