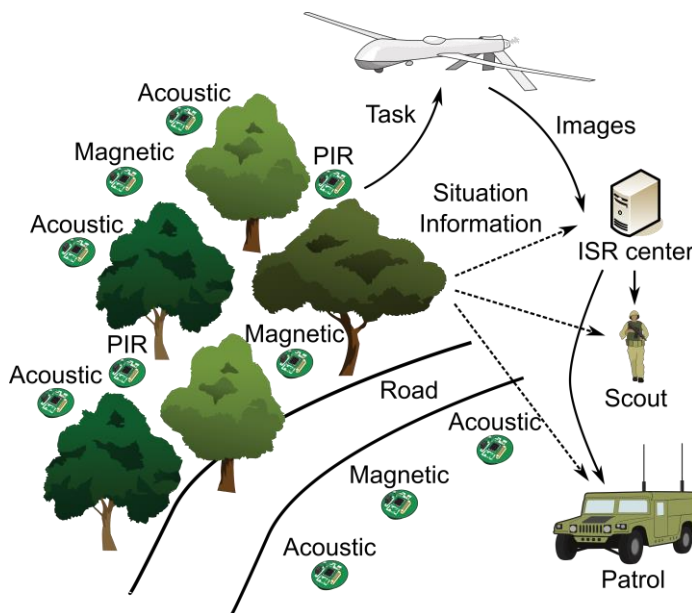


PROWARE SENSING IN THE FIELD

Intelligence Surveillance and Reconnaissance System for Military Situation Awareness

- Enhanced situation awareness for in-the-field units and remote intelligence operatives
- On demand delivery of situational data from the sensor network to external clients
- A wireless sensor network with a dynamic structure and ad hoc communication paths
- In-network creation of situational data
 - in-sensor signal processing
 - different sensor modalities (seismic, infra-red, acoustic, visual, magnetic, etc.)
 - novel detection and classification algorithms based on in-depth analysis of sensor data
- Distributed data aggregation and fusion
 - in-network data processing supported by service-oriented middleware
 - hierarchical buildup of situation information by distributed fusion and aggregation
 - time-selective communication provides temporally aligned information for fusion and aggregation algorithms
- Built-in validation of temporal and spatial constraints
- Low bandwidth usage and low power consumption devices



*Data to Decision: Network which caters to the needs of the user at the edge of the network. Network provides **relevant** situational information to the user exactly **where** and **when** it is needed!*

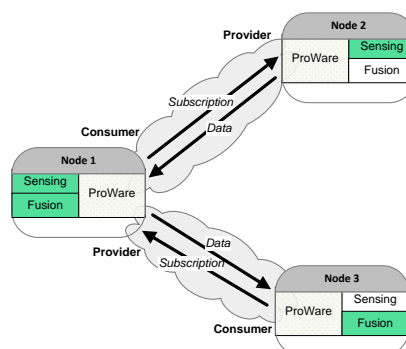
THINNECT MIST – self-forming robust mesh

- Patented mesh network technology enables creation of large scale mesh networks
- Enables direct device to device communication
- Certificate-based security
- High robustness
 - self healing
 - no collisions clustering

PROWARE - a service based middleware

Embedded in every data producer and data consumer, based on publish-subscribe principles and provides the following network-based services:

- Provider discovery
- Agreements on data exchange
- Agreements on data delivery
- On-line validation of data



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