



IBDSS

Applied Research Associates, Inc.

Technology Highlight

Detection. Assessment. Communications.

Integrated Base Defense Security System (IBDSS)

Applied Research Associates' Integrated Base Defense Security System (IBDSS) provides state-of-the-art protection of resources, personnel, and critical infrastructure. IBDSS is scalable to provide all-weather, day/night wide area intrusion detection and immediate visual assessment, integrating ARA-recommended or user specified intrusion detections systems such as:

- Ground based radars such as ICx STS 350, 700, 1400, DRS MSTAR
- Mobile, deployable detection capability such as RAPID™
- Buried leaky coaxial system such as OmniTrax
- Fiber Optic Intrusion Detection System (FOIDS)
- Video motion detection
- Balanced magnetic switches
- Volumetric sensors/motion detectors
- Existing legacy systems

IBDSS combines the latest in detection and assessment technology using FIPS 140-2 validated components that can be Defense Information Assurance Certification and Accreditation Process (DIACAP) certified to connect directly to the Global Information Grid (GIG) or installation network.

IBDSS can operate as a standalone system or can be integrated with existing annunciators such as Vindicator, Advantor, or Diebold. IBDSS integrates the detection and assessment capabilities to provide a real time, complete operational picture for the response force coordinators, additional/higher level command centers, and response vehicles.

In addition, IBDSS is IPv6 capable and integrates secure wireless and broadband communications which can reduce infrastructure costs. Our systems allow resource owners the ability to detect, distinguish, communicate, and direct personnel to counter threats to resources while meeting information assurance requirements.

ARA provides end-to-end solutions to security problems. An industry leading research and development background allows us to create innovative solutions to many of today's toughest protection dilemmas.



www.ara.com/base-defense

ARA's Integrated Base Defense Solution Includes:

Remote Automated Intrusion Detection System (RAIDS), the command & control "nerve center" of IBDSS, provides all-weather, day/night wide area intrusion detection and immediate visual assessment using ground based radar systems with integrated visual closed circuit television and thermal/laser imaging cameras.

Secure Wireless Backbone (SWiB) is a multipath wireless network providing high availability, high bandwidth, FIPS 140-2 validated security. SWiB is part of a larger intrusion detection system allowing remote sensor locations to stream data back to a centralized position via licensed, high frequency microwaves.

Remote Sensor Interface Node (RESIN) is a system of sensors that will identify and track intruders in defined restricted areas. The system includes: visible light optical cameras, infrared cameras, and microwave radars.

Remote Automated Portable Intrusion Detection System (RAPID™), a cost-effective, mobile, and highly capable solution for wide area intrusion detection. The universal radar mounting platform supports multiple sensor types. The RAPID mobile system can be configured into the IBDSS.



Information Assurance and Security

These systems are currently in Phase II of the Department of Defense Information Assurance Certification and Accreditation Process (DIACAP). Upon completion of the DIACAP, the SWiB, RESIN, RAIDS, and RAPID* systems can be utilized on Department of Defense installations, allowing interconnection with the Global Information Grid (GIG).

* The RAPID System has not yet begun DIACAP

To find out more about how ARA's Integrated Base Defense solutions can be customized to your needs or to schedule a demonstration, contact:

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ARA is an international research and engineering company recognized for providing technically excellent solutions to complex and challenging problems in the physical sciences. Founded in Albuquerque, NM in 1979, ARA has offices throughout the United States and Canada. ARA provides a broad range of technical expertise in defense technologies, civil technologies, computer software and simulation, systems analysis, environmental technologies, and testing and measurement. ARA also provides sophisticated technical products for environmental site characterization, pavement analysis, and robotics.

For more information about ARA's diverse and innovative capabilities visit our web site at www.ara.com, email us at info@ara.com, or call us at 505-881-8074.

