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A WORLD-CLASS LINE-UP

All Saab radars combine battle-proven designs from the renowned ERIEYE (AEW), ARTHUR and GIRAFFE AMB product families. Saab offers a full range of high-performing radar systems for a multitude of applications and mission types.

|             | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE UPGRAD | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB | GIRAFFE | AMB |
|-------------|---------|-----|---------|-----|---------|-----|---------|-----|---------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|
| Air Surveillance | - | | - | | - | | - | | | - | | - | | - | | | - |
| Ground Based Air | - | | - | | - | | - | | | - | | - | | - | | | - |
| Weapon Locating | - | | - | | - | | - | | | - | | - | | - | | | - |
| Missile and Wheeled | - | | - | | - | | - | | | - | | - | | - | | | - |
| Multi-Role | - | | - | | - | | - | | | - | | - | | - | | | - |
| IFF | - | | - | | - | | - | | | - | | - | | - | | | - |

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EXTENDING RADAR CAPABILITIES
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<thead>
<tr>
<th>Weapon Location</th>
<th>Surface and Maritime</th>
<th>Air Surveillance</th>
<th>Radar Upgrade</th>
<th>GIRAFFE AMB</th>
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Saab constantly develops, adapts and improves new technology to meet changing customer needs. Saab’s Radar Upgrade solution is designed to empower the aging radar system with modern technology designed to improve performance, reliability and availability, and reduce maintenance and personnel costs and power consumption.

**TAILORING TO PRECISE CUSTOMER NEEDS**

The Radar Upgrade solution is based on modular technology that makes it easily adaptable for 2D and 3D radar systems, fully replacing major signal/data processing and receiver/exciter components of the aging radar. Our tailored approach also includes a complete replacement of the radar transceiver subsystem with a modern, efficient and cost-effective solid-state design. By using modern signal processing and software, the net result of the Radar Upgrade solution includes improved Probability of Detection (Pd), and range/azimuth accuracy and range/azimuth resolution that exceed the radar original manufacturer’s specifications.

**CUSTOMER NEEDS TAILORED TO PRECISE**

The Radar Upgrade solution means that we can configure it to meet the performance requirements of most radars available today. The Modular Open System Architecture design means that costs for retrofitting or recording software of the older radar design are not necessary. By using a single 19” equipment rack of mostly Commercial Off The Shelf (COTS) hardware, the Saab Radar Upgrade solution completely replaces several electronics cabinets and unsupportable legacy software associated with the aging radar.

**BETTER PERFORMANCE AT LOWER COST**

Saab’s Radar Upgrade solution is designed to improve the operational capabilities of the improved radar. Saab’s technicians make the initial installation of the Radar Upgrade solution completely within on-site adaptations can be done with participation of the radar owner if so desired. Final acceptance testing and performance evaluation may then be conducted using Saab’s diagnostic Radar Analyst Support System (RASS) tools. This performance and Troubleshooting software allows antenna modeling and waveform adaptation to best optimise final performance setting for each Saab-upgraded radar system.

**REMOTE MONITORING AND CONTROL**

Upon completion of the Radar Upgrade, radar technicians can benefit from Saab’s Remote Monitoring and Control Function (MCF). Utilising an MCF display either at the radar site or remotely from a centralised radar operations facility, radar technicians can monitor or record radar status and adjust radar optimisation performance parameters. The MCF significantly reduces the need for on-site radar interventions, a saving in cost and time for the radar owner.

**FEWER COMPONENTS MEANS HIGHER RELIABILITY AND LOWER MAINTENANCE COSTS**

Saab’s Radar Upgrade solution reduces the required number of Line Replaceable Units (LRUs) within the modernised radar system. Aging radars often rely on signal/data processing components enclosed within numerous electronics cabinets. Typically such older design, hardware-intensive signal/data processing components exceed more than 500 individual LRUs and can consist of obsolete parts that are no longer available from the original manufacturer. The modernised Saab Radar Upgrade solution reduces the required LRUs of over 500 items down to less than 50.

**COST-SAVING ADAPTABILITY**

Saab’s Radar Upgrade solution means that we can configure it to meet the performance requirements of most radars available today. The Modular Open System Architecture design means that costs for retrofitting or recording software of the older radar design are not necessary. By using a single 19” equipment rack of mostly Commercial Off The Shelf (COTS) hardware, the Saab Radar Upgrade solution completely replaces several electronics cabinets and unsupportable legacy software associated with the aging radar.

**INSTALLATION, TESTING AND EVALUATION**

We work closely with our customers to assure the operational capabilities of the improved radar. Saab’s technicians make the initial installation of the Radar Upgrade solution within on-site adaptations can be done with participation of the radar owner if so desired.

**TRAINING**

Final acceptance testing and performance evaluation may then be conducted using Saab’s diagnostic Radar Analyst Support System (RASS) tools. This performance and Troubleshooting software allows antenna modeling and waveform adaptation to best optimise final performance setting for each Saab-upgraded radar system.

**LOGISTICS SUPPORT**

Saab has been active in defence and security for more than 75 years. Solutions for air, sea and land operations, civil security and commercial aeronautics make us a complete business partner. Working with Saab means you will benefit from the ultimate synthesis of experience, efficiency and excellence in engineering.

In radar technology, we are at the very forefront and offer outstanding capabilities to demanding customers all over the world. In a way you could say that our mission in this field is to help your forces to virtually look into the future. To see before you are seen and to maintain superior situational awareness.

A line of ground-breaking innovations form a track record that proves our ability to sharpen the thinking edge. Making it sharp enough to cut through the barrier of the impossible, strengthening your ability to protect your troops and keep people safe.

**LOOK INTO THE FUTURE**

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**SAAB RADAR UPGRADE SOLUTION INCLUDES**

- Radar Signal/Data Processing Subsystem
- Radar Operator Monitoring & Control Display Console
- Complete Radar Upgrade Operating Software using modern software programming language
- Full Radar Upgrade Operating & Maintenance Training Instruction
- Available Solid State Radar Transmitter Subsystem
- Available Saab In-Service Support

**ILS – INTEGRATED LOGISTICS SUPPORT**

New generation radar systems delivered to the customer, Saab ILS experts have solid experience in tailoring ILS deliveries together with customers worldwide.

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A line of ground-breaking innovations form a track record that proves our ability to sharpen the cutting edge. Making it sharp enough to cut through the barrier of the impossible, strengthening your ability to protect our ability to defend.

Saab constantly develops, adapts and improves new technology to meet changing customer needs. Saab’s Radar Upgrade solution is designed to empower the aging radar systems with modern technology designed to improve performance, reliability and availability, and reduce maintenance and personnel costs and power consumption.

**TAILORED TO PRECISE CUSTOMER NEEDS**

The Radar Upgrade solution is based on modular technology that makes it easily adaptable for 2D and 3D radar systems, fully replacing major signal/data-processing and receiver/exciter components of the aging radar. Our tailored approach also includes a complete replacement of the radar transceiver subsystem with a modern, efficient and cost-effective solid-state design.

By using modern signal processing and software, the net result of the Radar Upgrade solution includes improved Probability of Detection (Pd), and range/azimuth accuracy and range/azimuth resolution that exceed the radar original manufacturer’s specifications.

**COST-SAVING ADAPTABILITY**

The scalability of the Saab Radar Upgrade solution means that we can configure it to meet the performance requirements of most radars available today. The Modular Open System Architecture design means that costs for porting or recoding software of the older radar design are not necessary. By using a single 19” equipment rack of mostly Commercial Off The Shelf (COTS) hardware, the Saab Radar Upgrade solution completely replaces several electronics cabinets and unsupportable legacy software associated with the aging radar.

**CUSTOMER NEEDS TAILORED TO PRECISE**

Saab’s Radar Upgrade solution means that we can configure it to meet the performance requirements of most radars available today.

**INSTALLATION, TESTING AND EVALUATION**

We work closely with our customers to assure the operational capability of the improved radar. Saab’s technicians make the initial installation of the Radar Upgrade system and will form the basis for future maintenance.

**REALITY MONITORING AND CONTROL FUNCTION**

Upon completion of the Radar Upgrade, radar technicians can monitor and checkout software allows antenna performance parameters. The MCF significantly reduces the need for on-site radar interventions, a saving in cost and time for the radar owner.

**FEWER COMPONENTS MEANS HIGHER RELIABILITY AND LOWER MAINTENANCE COSTS**

Saab’s Radar Upgrade solution offers a ten-fold reduction of Line Replaceable Units (LRUs) within the modernised radar system. Aging radars often rely on signal/data-processing components enclosed within numerous electronics cabinets. Typically such older designs have strange signal/data-processing components exceed more than 500 individual LRUs and can consist of obsolete parts that are no longer available from the original manufacturer. The modernised Saab Radar Upgrade solution reduces the required LRUs of over 500 items down to less than 50.

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**SAAB RADAR UPGRADE SOLUTION INCLUDES**

• Radar Signal/Data Processing Subsystem
• Radar Operation Monitoring & Control
• Complete Radar Upgrade Operating Software

**ILS – INTEGRATED LOGISTICS SUPPORT**

Saab ILS experts have solid experience in tailoring ILS solutions to fit the needs of all types of customers worldwide.

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SAAB RADAR UPGRADE SOLUTION INCLUDES
• Available Saab In-Service Support
• Available Solid-State Radar Transmitter Subsystem
• Full Radar Upgrade Operating & Maintenance Support
• Complete Radar Upgrade Operating Software
• Radar Operator Monitoring & Control

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INSTALLATION, TESTING AND EVALUATION
We work closely with our customers to assure the operational capability of the improved radar. Saab’s technicians make the initial installation of the Radar Upgrade solution and further on-site adaptations can be done with participation of the radar owner’s technicians if desired. Final acceptance testing and performance evaluation may then be conducted using Saab’s diagnostic Radar Analysis Support System (RASS) tools. This performance- and troubleshooting software allows antenna modeling and waveform adaptation to best optimise final performance setting for each Saab-upgraded radar.

WHY CHOOSE SAAB RADAR UPGRADE?
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