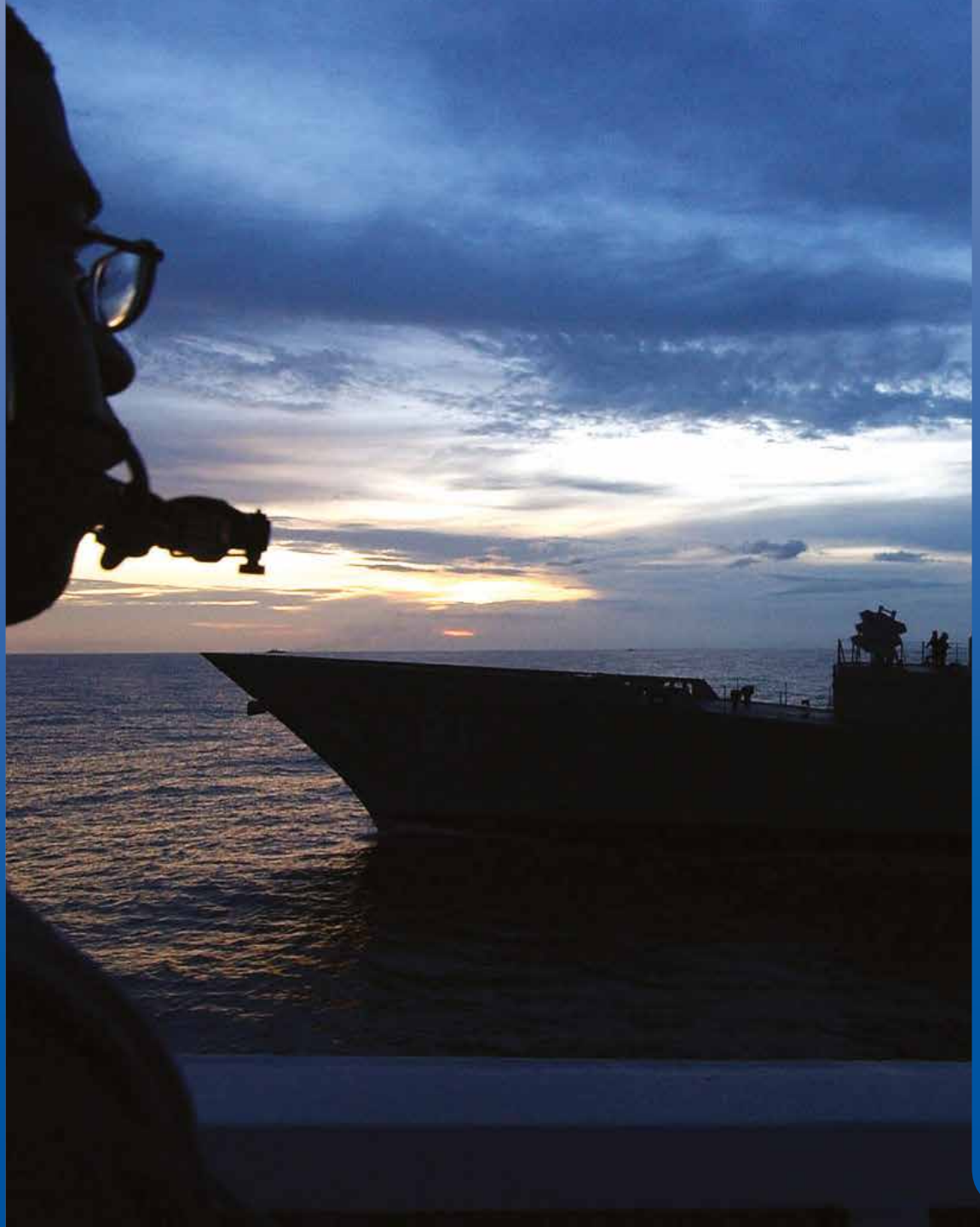


Connect. Respond.

Enhanced situational awareness
for naval C4ISR



For more than 30 years, we have worked together with navies worldwide to meet the needs of an ever-changing battlefield. Still today, our risk-free and network-enabled solutions provide operators

and decision-makers with the ability to see critical information for increased situational understanding and mission effectiveness.

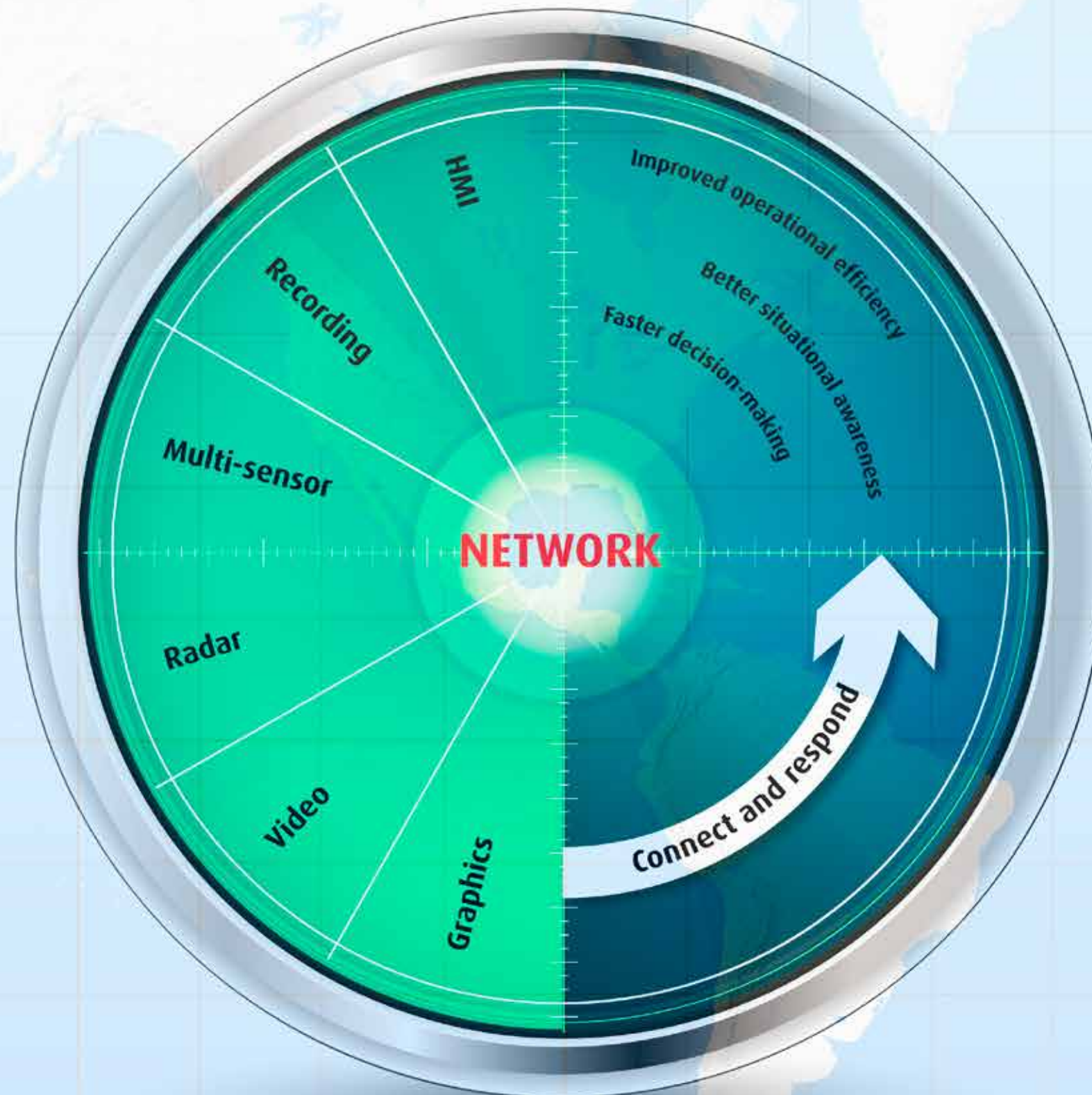
Our strengths

Solutions for advanced C4ISR

We provide both the hardware and the software to deliver a dedicated visualization system that best fits your needs, whether you are retrofitting, refurbishing or building an entirely new platform. Our offering ranges from displays, smart displays, HMI consoles and rugged computers to advanced image processing capabilities, high-resolution recording and networked sensor distribution solutions. All vigorously tested, field-proven and MIL-qualified.

Networked radar, video and graphics distribution

Because operators and decision-makers need immediate access to visual information from a wide variety of sources, networked systems are on the rise. We offer a network client application, built on our best-of-class components, for access to real-time information - be it video, radar, graphics or other - distributed over a secure network, with minimal latency and in the highest quality.



Fit for use in extreme environments

We adopt commercial COTS components, such as LCDs and processors, and ruggedize these to allow deployment in the most extreme conditions. In addition, we offer a unique Integrated Logistics Support plan for a period of no less than 20 years to reduce the overall cost of ownership and safeguard your product against obsolescence.

Innovative visual technology

At the core of our business is our expertise in GPU programming. We use the latest GPU technology to provide video, radar, multi-sensor, recording and HMI capabilities that help you connect and respond to mission-critical information. The result? Better situational awareness, faster decision-making, and improved operational efficiency.

Our high-level capabilities not only facilitate access to information, they also speed effective decision-making. By enabling users to control how and where information is displayed, you can collaborate in the most efficient way.

Esterline's rugged displays and visualization solutions have years of proven lessons and qualifications built in to ensure the highest performance and the lowest risk possible on the market today.

Our capabilities



Networked collaboration

With our advanced software solutions which support Service Oriented Architectures (SOA), you can push and pull data, video, screen content and graphics from anywhere, to anywhere. It helps you turn information into intelligent knowledge to ensure fast and effective decision-making.

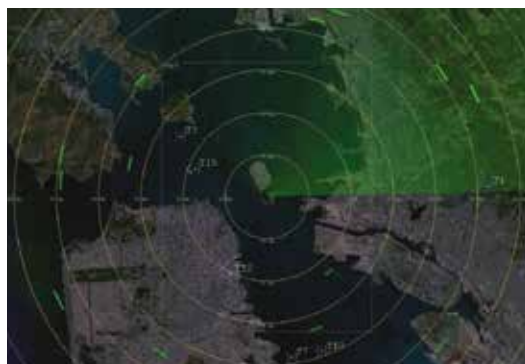
- Connect to multiple information sources
- Control how & where sources are displayed
- Collaborate in the most efficient way
- Build on a scalable solution



Networked radar processing

We offer a networked radar rendering system with true multi-radar fusion, eliminating the need for expensive radar scan conversion hardware. Our software provides an open framework for networked radar processing and custom designing software when third-party or legacy modules need to be integrated.

- Reduce ownership and maintenance costs
- Get the latest CPU/GPU technologies
- Scale to your own needs and requirements



Multi-sensor processing

We also enable integration of user-defined video and graphics into distributed visualization systems. Multiple video sources can be stabilized, fused, stitched into panoramas, and recorded.

- Enhance information interpretation & evaluation
- Optimize local situational awareness
- Speed decision-making
- Deterministic multi-sensor processing



High-resolution mission recording

Our mission recorders offer the best image recording and replay functionality for post-mission analysis, and training and simulation applications. They feature Voice over IP, network sensor recording, voice recording synchronization and Metadata tagging.

- Record on local or remote sites
- Manage mission-critical audio & video data
- Replay while recording
- Features Metadata tagging



Our products



Human Machine Interface

The Vista 4500 console is the latest generation of network-capable modular console design.

- Optimize integration with a compact design
- Allow customizations to be compliant with platform constraints
- Rely on a MIL-qualified & low-risk design



Intuitive User Interface

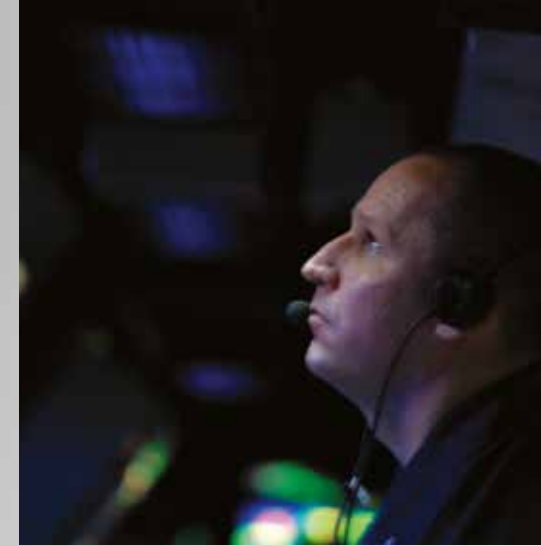
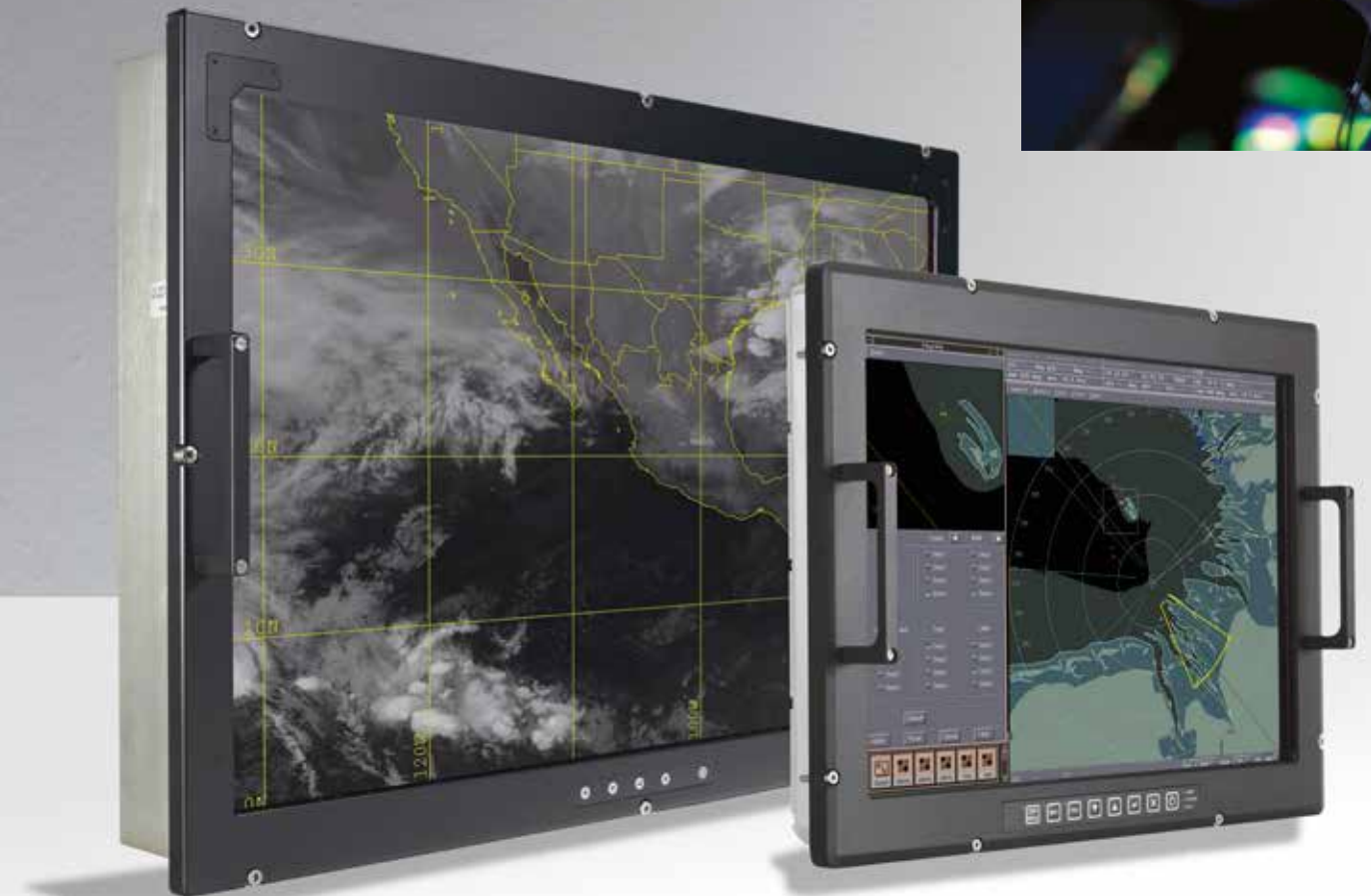
A unique human machine interface improves operational efficiency and the availability of all information on a single command panel.

- Improve operational efficiency
- Increase the shared situational overview
- Optimize user-system interaction
- Leader in multi-touch

Visualization software

Turning mission-critical information into knowledge typically requires customization on the client's application programs. With the CommonSENSE software toolkit, we offer an application programming interface to help system designers with the rapid development of visualization applications. We also provide networked radar visualization and mission recording software.

- Software toolkit for image processing
- Software for networked radar visualization
- Software-based mission recording



MIL-qualified displays

We have the expertise to design and qualify military displays with unique technologies that facilitate the presentation of sonar data, like LCD Flicker Compensation and Automatic Phase Adjust technologies. Equipped with advanced dimming and ruggedization features, Esterline displays ensure the best optical performance in all conditions.

- Count on clear, crisp graphics & video
- Assess fast-moving images smoothly
- Meet shock, temperature and vibration requirements

You know us for our rugged and MIL-qualified display solutions. It's their dependability that helps you complete your missions successfully. But we provide more than just a system.

With our global presence and local expertise and service, we help you get the most from our products. Additionally, we offer a unique Integrated Logistics Support plan to safeguard system performance and continuity for a period of no less than 20 years.

We also make the difference by delivering the services that best suit your needs, no matter where you are. And by customizing our support activities to meet your unique requests.

We have gained your trust by providing reliable, high-quality solutions. We maintain it by ensuring the highest level of support.

Our commitment



Professional helpdesk

Our dedicated helpdesk hotlines are run by trained product specialists who ensure immediate and real-time assistance in your local language, and are committed to delivering excellent customer service.

- Local point-of-contact
- Inquiry handling
- Emergency coverage
- Problem resolution



Hard and software maintenance

Our engineers have an in-depth knowledge of your Esterline product and offer the highest level of repair services. For obsolete products, we provide a 7-year servicing period starting from the end-of-life date.

- Repairs and upgrades
- Occurrence and reliability reporting
- Software support
- Obsolescence management



Customized support

Besides our standard service offering, we provide a wide range of additional services customized to meet the extremely high demands of defense communities.

- Extended warranty
- Extended support beyond the standard 7 years
- Expedited Turn-Around-Time
- Obsolescence management beyond the standard 7 years
- Occurrence / reliability reporting

Online services

e-helpdesk

Log on to eSupport at www.esterline.com/support for:

- Technical questions
- Return Material Authorization (RMA)
- Service requests status tracking

My.esterline.com

My.esterline.com is our 24/7 online self service portal that gives access to:

- Driver and software downloads
- Service requests platform
- Warranty and EOL information
- Compatibilities matrices
- Online training tools & webinars

On-site assistance and training

On-site support

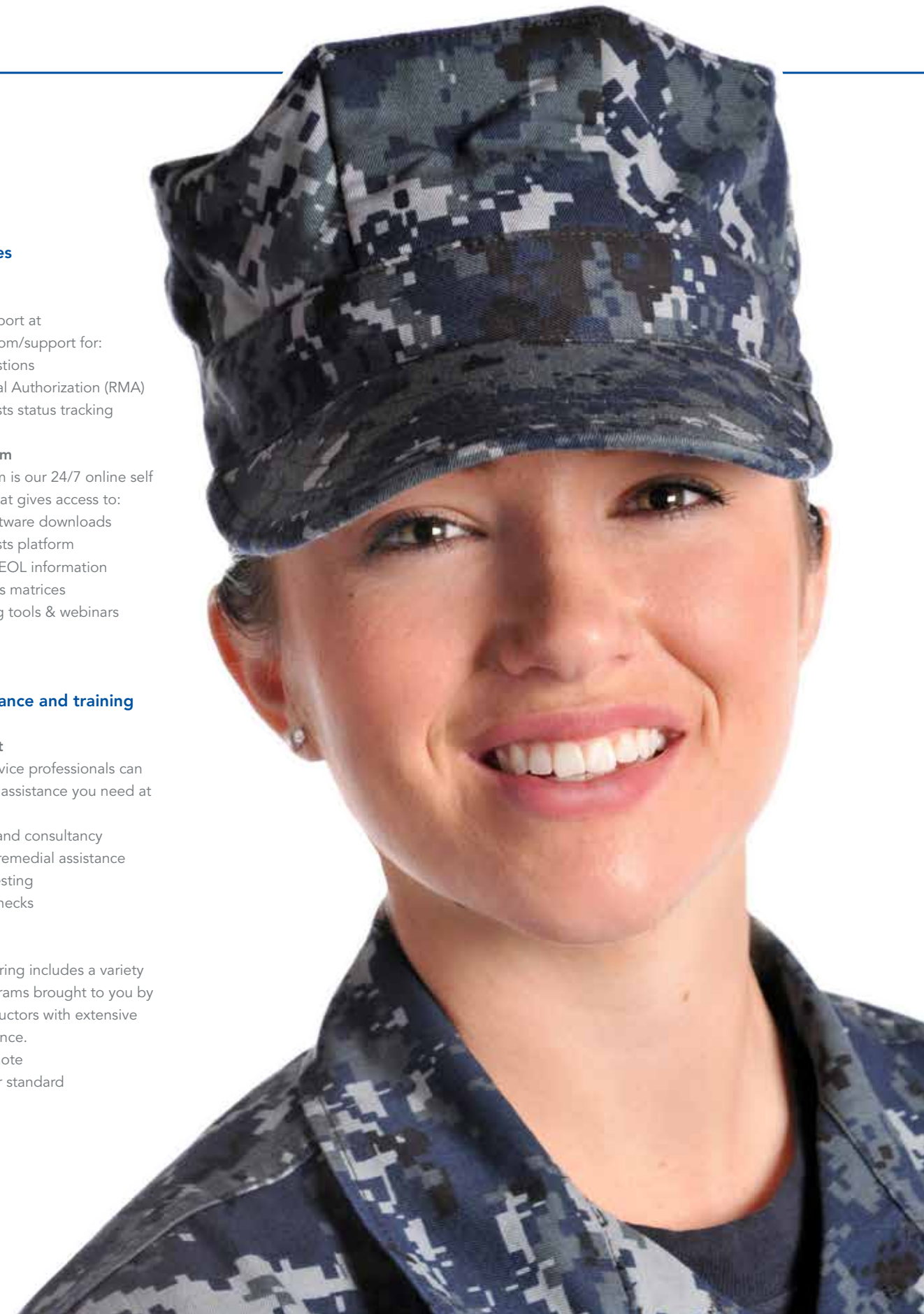
Our team of service professionals can offer the expert assistance you need at your facility.

- Maintenance and consultancy
- Preventive or remedial assistance
- Acceptance testing
- Consistency checks

Training

Our service offering includes a variety of training programs brought to you by competent instructors with extensive product experience.

- On site or remote
- Customized or standard



Our references

As a proud supplier to the naval community, you will find us on board of these ships:

Al Riyadh class • Álvaro de Bazán class • Anzac class • Arleigh Burke class - Baynunah class • Cavour class • Charles De Gaulle class • Corvette class • DDG 1000 Zumwalt class • Delhi class • Duke class • Eilat class Sa'ar 5 • Fearless class • Ticonderoga class • Formidable class • FREMM class • Gaeta class • Halifax class • Horizon class • Huon class • La Fayette class • Le Triomphant SSBN class • LHD Wasp class • Littoral Combat Ship • Milgem class • Nimitz class • NSSN Virginia class • Sachsen class • SSBN/SSGN Ohio class • SSK Collins class • SSK Dolphin class • SSN Astute class • SSN Los Angeles class - SSN Seawolf class • U212 class • U214 class

Over the years, we have earned the trust of over 20 navies worldwide. We earned this trust by always succeeding in meeting - and even exceeding - program-specific requirements.

Esterline for defense and aerospace

At moments of decision, Esterline is there to enhance mission effectiveness and bring critical sensor information to the operator. As no other visualization company, Esterline gives operators and decision-makers the power to see their high-resolution images in real time, wherever they need them.

Esterline has been serving the defense and aerospace community for over 30 years, providing reliable and high-performance software solutions, high-quality rugged displays, deployable workstations, advanced imaging platforms, and Common-Operational-Picture solutions.

About Esterline

Esterline Corporation is a leading global supplier to the aerospace and defense industry specializing in three core areas: Avionics & Controls, Sensors & Systems, and Advanced Materials. The company employs approximately 12,000 people and operates manufacturing facilities in over a dozen countries worldwide. Esterline is headquartered in Bellevue, Wash., and trades on the New York Stock Exchange under the symbol ESL.

Operations within the Advanced Materials segment focus on technologies including high-temperature-resistant materials and components used for a wide range of military and commercial aerospace purposes, and combustible ordnance and electronic warfare countermeasure products.

Operations within the Avionics & Controls segment focus on technology interface systems for commercial and military aircraft and similar human-machine interface devices for land-

and sea-based military vehicles, cockpit integration systems and advanced display technologies, secure communications systems, specialized medical equipment, and other high-end industrial and gaming applications.

The Sensors & Systems segment includes operations that produce high-precision temperature and pressure sensors, specialized harsh-environment connectors, electrical power distribution equipment, and other related systems principally for aerospace and defense customers.

Photo courtesy of AAI Corporation, BAE Systems, Krauss-Maffei Wegmann, Northrop Grumman, Rheinmetall Landsysteme GmbH, Saab Microwave Systems, STN Atlas, US Army

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