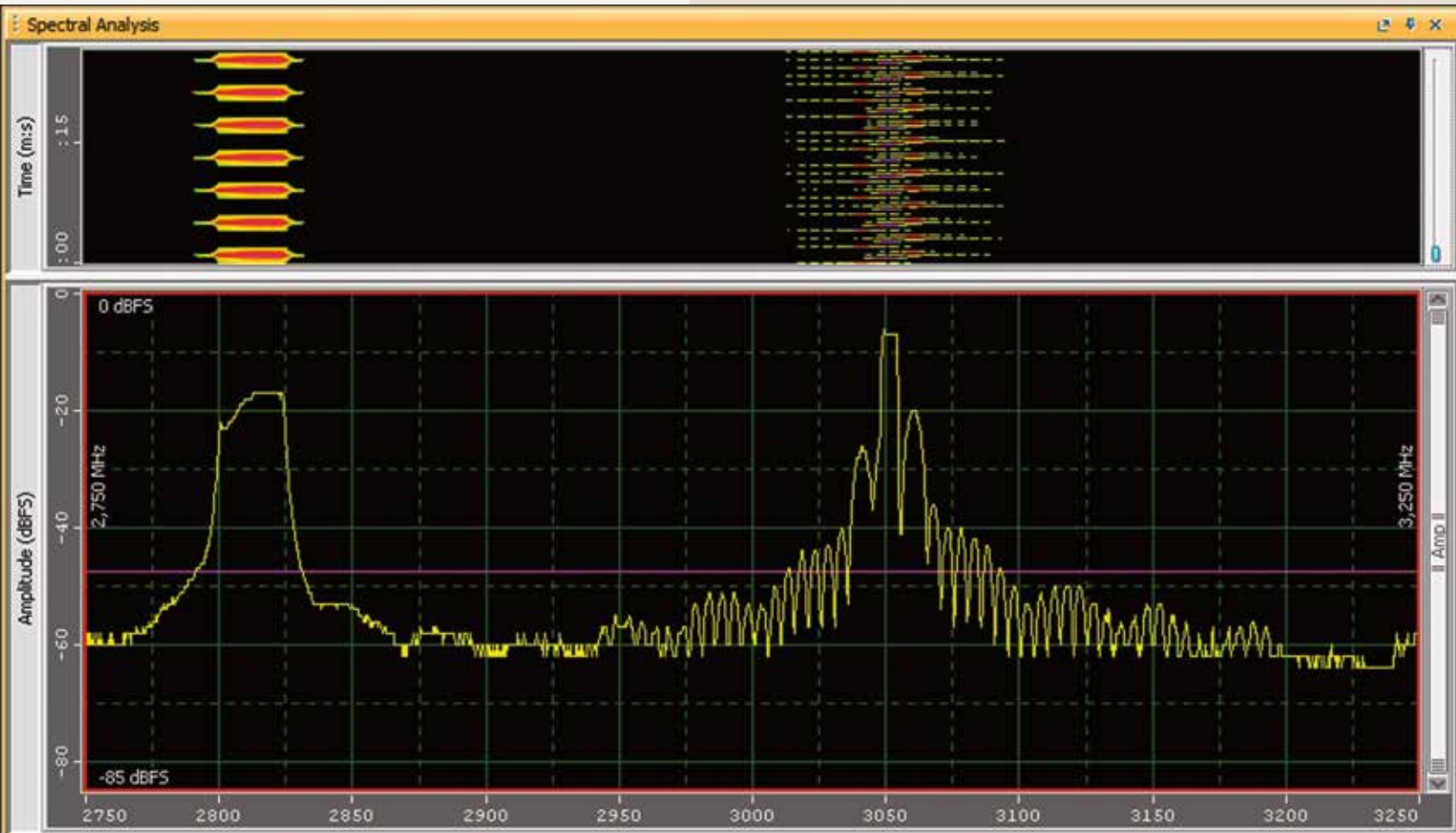


## ELECTRONIC WARFARE (EW) SOLUTIONS

Locate. Manipulate. Dominate signal threats.



**Rockwell  
Collins**

Building trust every day

Enabling spectrum superiority on any platform in any domain.



## Multiple threats. Multiple solutions. One proven provider.

There was a time when you could easily spot your enemies by the uniform they wore, the flag they flew or even the color of their vehicles. Not today. The word “enemy” has even changed. And today’s threats can come in many forms – from the air, land or sea. Some are highly organized, some are not. These may be terrorists, pirates, paramilitary, smugglers, etc. But what they all have in common is their growing reliance on electronic devices.

Regardless of how you define the enemy, the threat, or the environment in which they operate, gaining control of the Electromagnetic Spectrum (EMS) is essential to enabling mission

success. That’s why you need a provider you can trust for capability to effectively monitor enemy activity, gather critical intelligence and understand hostile intents.

At Rockwell Collins, our mission is to support your mission. Whether you require tactical Electronic Intelligence (ELINT) capability, or Electronic Support Measures (ESM) for a coastal-border protection mission, or communications electronic attack solutions for a modified escort jamming role, Rockwell Collins has a solution to meet your needs.

## More than 35 years of field-proven EW solutions.

Rockwell Collins has been a leader in the design, development and fielding of advanced EW solutions for more than 35 years. We bring an uncommon depth of experience in the EW market.

New threats in the environment drive changes in CONOPS, and drive the need for incremental and advanced capabilities. You can count on us to meet your needs today, and to provide capability for the future as well.

From antennas to microwave tuners, to digital pulse analyzers, to RF spectrum displays, to ELINT components and converters, to communications jammers – we offer a wide array of EW solutions regardless of the platform or threat environment.

## Designed with flexibility and future growth in mind.

Our systems not only provide the highest level of electronic support and Electronic Attack (EA) capabilities, they also give our customers the added flexibility of being platform agnostic. The hardware is designed to be installed on aircraft, ships, submarines, ground vehicles, mobile ground-based platforms and fixed platforms. So no matter what type of platform is specified, chances are we can provide a proven end-to-end ELINT/ESM or EA solution.

The Rockwell Collins EW product roadmap is based on a building-block approach to allow customers to purchase stand-alone product or a customized system level solution. This modular, scalable, open architecture facilitates easy spiral upgrades, enabling incremental technology insertions. Additionally, this approach provides customers with a lower overall cost of ownership by reducing training, logistics and support burdens.

## More than 20 countries rely on Rockwell Collins for their EW solutions.

As the global threats to safety and security increase, so does the list of countries that rely on Rockwell Collins to meet their EW needs. Our capabilities are currently installed on a variety of ships, submarines, aircraft, ground vehicles and fixed ground stations in more than 20 countries around the world.

Providing products that operate on such a diverse array of platforms and environments is important to our customers here at home, and

around the world. That’s why our export compliance specialists are always working to ensure the availability of applicable EW product to our international markets.

Let our team of experts work with you to create the ideal solution to meet your immediate and emerging needs.





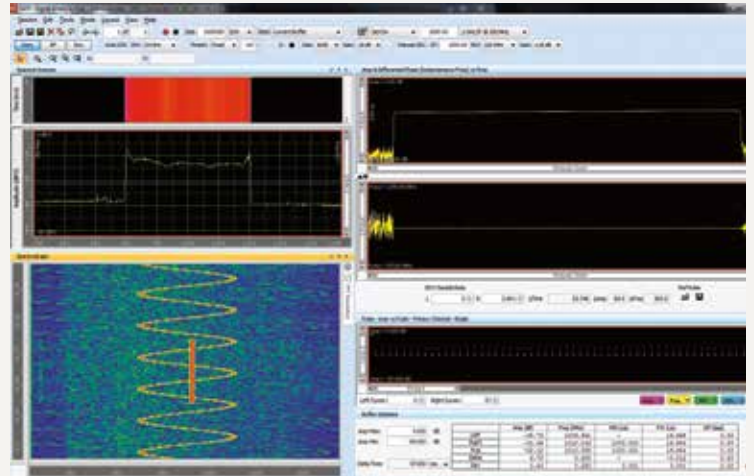
## Rockwell Collins Electronic Support solutions. Accurate insight for a spectrum dense environment.

### Sophisticated radar emitter detection and pulse processing.

In an environment where threats are all around us, and change is the only constant, you can be assured that no two engagements will be the same. Given these complex conditions, you need increasingly sophisticated solutions to see the threats around you, while not being seen.

That's why Rockwell Collins offers a full line of Signals Intelligence (SIGINT) products, systems and subsystems, including ELINT and ESM capabilities to help you passively detect, identify, intercept and understand the battlefield.

Our multiplatform SIGINT solutions offer fully integrated radar ELINT and ESM capability and have been deployed for airborne, ground and naval applications. We can configure simple or complex surveillance systems quickly and with low risk by using our hardware and software products, which are designed to work together in different operational environments.



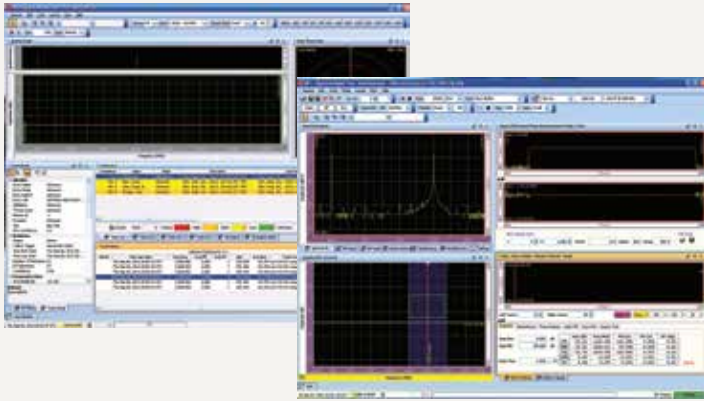
From border and coastal surveillance missions on the ground and at sea that require a precision ESM solution, to airborne tactical ELINT collection requirements calling for high-speed search and collection of signals in the 0.5 to 40 GHz range – we have you covered. Our systems offer high sensitivity, narrow beam width, flexible, expandable system architecture and compact size for a wide range of applications.

Regardless of which solution you employ, Rockwell Collins EW products and systems provide critical capability that enables you to cover a wide range of frequencies and effectively manage your SIGINT mission.



## Building-block approach yields effective system solutions.

Success requires you to have the right tools in hand to perform your mission. Experience has shown us that effective and efficient SIGINT solutions should not necessarily be configured as a “one size fits all” model. It was from this line of thinking that our building-block approach to design was born. This concept allows us to deliver a custom off-the-shelf solution, in significantly less time and at a lower cost than traditionally possible.



We have engineered our current EW offerings to work independently or as part of a larger networked system. And we offer our customers the ability to mix and match components to create the best overall solution for today and with growth potential for tomorrow.

Our products include search and direction finding antennas, RF distribution networks, microwave and millimeter wave receivers up to 110 GHz, signal processors, signal analysis tools and situational awareness displays. Using these products, Rockwell Collins provides fully integrated Electronic Support (ES) systems to meet a wide range of challenging customer requirements.

Nondevelopmental ELINT and ESM options allow existing systems to be upgraded cost effectively to meet new mission requirements. Our entire offering is designed with spiral upgradability in mind.

Emerging capabilities can be added in the field through simple hardware or software upgrades, so you can stay ahead of any new technologies the adversary may introduce. This not only gives mission commanders the best available intelligence gathering capabilities, it also helps extend the service life of valuable components and enables low-cost and low-risk technology refresh.

## The heart of the system.

At the heart of our ELINT system is the Digital Pulse Analyzer Unit (DPAU), which delivers advanced digital receiver technology and digital signal processing for increased sensitivity, accuracy and selectivity. The DPAU features radar analysis, identification and direction finding. And our SAT GUI screens provide mission-critical data in a user-friendly display for the operator to control the system and make quick and effective decisions.



Rockwell Collins EA solutions.  
When the best defense  
is a good offensive capability.



## Deny. Degrade. Disrupt your enemy.

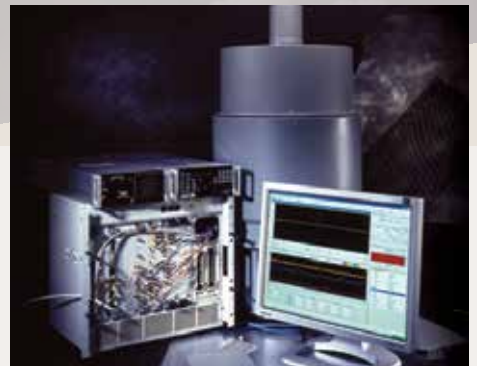
As today's threat environment becomes increasingly more complex, the technology used against those threats must also grow in its complexity and sophistication to ensure your ability to effectively control the spectrum. For more than 35 years, Rockwell Collins has provided field proven communications EA capabilities that deny, degrade and disrupt enemy communications.

Today, our offensive EA capabilities are focused on meeting the needs of operating in a more highly congested spectrum environment, and the need to precisely target signals of interest.

Rockwell Collins integrated ES/EA solution provides the ability to search across a wide band of spectrum, yet operate as a surgical narrowband jammer to maximize EA effectiveness, while minimizing interference to friendly frequencies. This capability is built on an open, scalable architecture that can be operated on air, ground or maritime platforms.

Our goal is to provide our customers with the right capabilities at the right time to enable mission success.





## From design to deployment, Rockwell Collins is your total EW provider.

There is more to implementing an effective EW solution than simply installing hardware or software onboard your aircraft, ships or land vehicles. It takes a dedicated team of experienced EW professionals. We pride ourselves in not only the quality of our products and systems, but in the experience of our team.

Rockwell Collins end-to-end solution expertise, which ranges from product design to system integration, installation, training and support, is one of the reasons many military and government agencies trust Rockwell Collins to provide their EW needs.

Our EW specialists will work with you to understand your unique situation and challenges. We will construct an EW solution that will serve your needs for years to come. Additionally, in many cases we can provide integration of the new hardware and software onto your platform.

As an industry leader, we offer an array of specialized services that extends beyond the sale of hardware to include a customized training and logistics program so that your operators are able to maximize and maintain the effectiveness of the equipment – from day one and well into the future.

### Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

### For more information, contact:

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