

# IFS Maintenix™ for Defense Aviation



Ensure superior visibility, control and compliance  
in your maintenance operation





# Superior maintenance management

## For efficient and cost-effective operational readiness

Defense maintenance organizations must meet tough performance targets and deliver affordable operational readiness across a range of aircraft ages and types. They must maintain complete, real-time visibility of in-theater operations and asset conditions—within a secure environment.

New technology has enabled military organizations to get closer to their military equipment and, in turn, a more complete picture of asset status and readiness—a concept we call Total Asset Readiness®.

Pressure to deliver operational results can compromise budgets. The ability to effectively balance cost and operational readiness requires:

- Fast and accurate assessments of the condition of in-field assets, and an ability to respond rapidly
- Integrated operations throughout the support organization
- Reduced sustainment costs through continuous improvement

By combining world-leading process engineering, clean data enforcement and advanced functional capabilities in a single system, IFS Maintenix is able to deliver an integrated information environment designed for real-time aviation maintenance operations.

With unmatched experience in supporting the needs of aviation maintenance organizations, IFS provides today's defense operators with the market's only MRO software solution to offer real-time, total asset visibility across a distributed network, while safeguarding network resilience and data integrity, regardless of connectivity constraints.

### Drive cost-efficient and sustainable maintenance businesses

IFS Maintenix software enables a sustainable maintenance environment, which supports evolving requirements and quickly responds to changing operational situations.

### Achieve measurable efficiencies in maintenance operations

An end-to-end approach to maintenance management empowers users to optimize their maintenance operations and leverage industry best practices.

**Affordable readiness**—Monitor force-wide asset availability and link policy changes to maintenance outcomes in order to achieve significant reductions in sustainment costs.

**Optimize performance**—Effectively plan and schedule maintenance based on real-time mission and asset utilization data, resource constraints and parts availability, without incurring oversupply costs.

**Operational agility**—React to unexpected events and changing mission profiles to reduce asset time-out-of-service and optimize operational readiness.

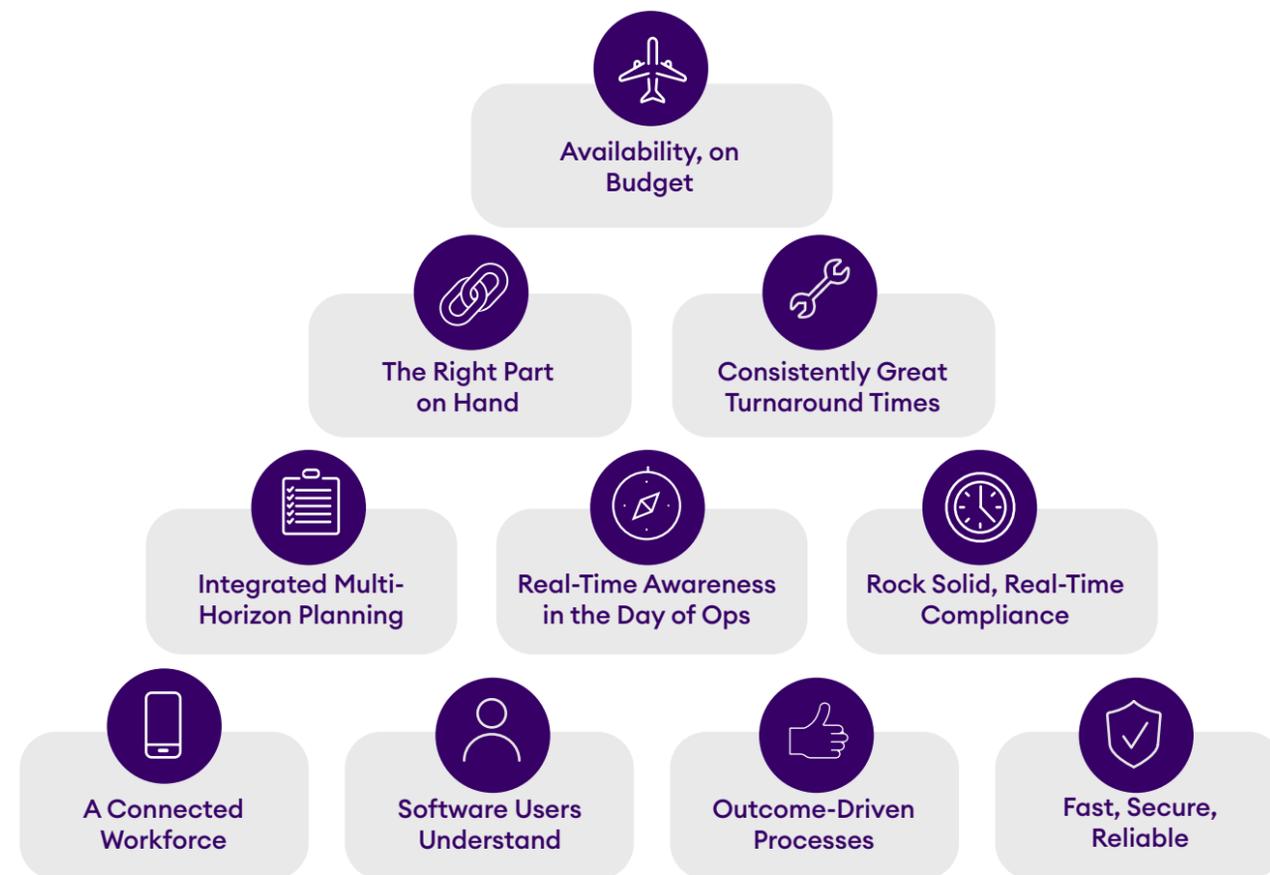
**Total asset visibility**—Total Asset Readiness—Accessibility to a clear and consistent framework that streamlines information, providing a view of military assets and their readiness level in the operational context.

**Global operations**—Accurately identify assets, resources and required maintenance through in-theater visibility of operational, intermediate and depot maintenance and real-time total asset visibility (TAV) of globally deployed assets with any level of connectivity, including periods of planned or unplanned connectivity.

# Benefits for defense aviation organizations

The monitoring and management of widely dispersed assets in the military maintenance arena present unique challenges for support of in-theater assets. The need for streamlined and transparent operations is critical to success.

IFS Maintenix provides military aviation maintenance organizations with the information required to manage a distributed network of resources, supporting operational requirements. The goal is to maximize the availability of your assets over their lifecycle, optimize downtime, ensure compliance and minimize costs through the use of the platform.



# Designed for aviation

IFS Maintenix has been developed over 20 years, serving armed forces and their suppliers, to ensure aviation asset availability on budget. IFS, along with our customers, have built our solutions around the critical capabilities common to world-leading maintenance organizations, and the necessary software enablers required by these organizations.

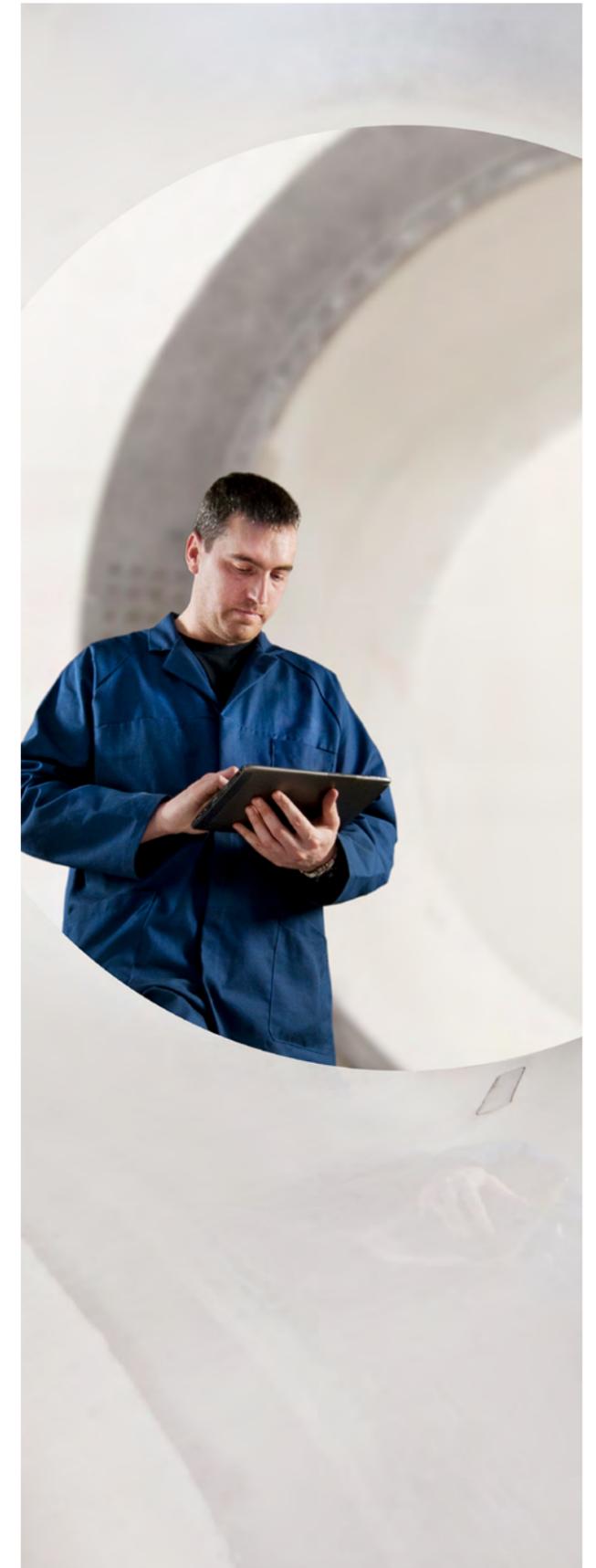
Focusing on what drives asset availability—parts availability and rapid reliable maintenance turnaround, IFS defense solutions enable an organizational model designed on three critical capabilities:

- the ability to create and rapidly modify executable plans over multiple horizons
- achieve situational awareness in the day of operations
- enforce and prove regulatory compliance in real-time

These capabilities enable maintenance organizations to plan for the future, rapidly react to changing environments, and ensure quality of the performance regardless of operational stresses.

For an IT system to enable these organizational capabilities, functional completeness is only one consideration:

- Real time operations require up-to-date, accurate information—a connected workforce using software that the users can understand is key
- The organization must have outcome-driven processes, minimizing “data management” activities and maximizing value adding activities
- Decision makers from line mechanics to command must be able to count on fast, secure, reliable information in order to make decisions



# Software capabilities

IFS Maintenix has all the functionality required by defense aviation organizations. Understanding the people, processes and purpose of defense sustainment, IFS is able to deliver a solution for all levels of defense maintenance. Day of Operations Control for Forward, Intermediate and Depot Level Maintenance is the focus of the software, with Engineering, Materials and Procurement supporting the key functionality.



## Forward/intermediate/depot maintenance execution

- Sign-off with e-signatures, enabling paperless maintenance operations
- Seamlessly communicate with Engineering for fault isolation and support
- Access approved repair instructions through in-context linking to electronic documentation
- Decision support tools for fault troubleshooting and rectification
- Improve billing accuracy through “point of maintenance” cost and labor collection
- Tap into onboard aircraft health monitoring for fault message relay and isolation
- View previous maintenance history and corrective actions to aid in the decision making for fault correction
- Capture “point of execution” data through optional wireless deployment
- Forward Maintenance Mobility offers forward maintainers a streamlined presentation of their maintenance workflows over their mobile devices

## Engineering

- Flag faults as “Engineering Required” and send an automated alert to a selected engineer, with all fault information attached
- Receive automatic notification when engineering evaluation is completed, including recommendations on next steps
- Control the allowable configuration of each aircraft type and track the “as flown” configuration
- Configuration controls ensure that every part installed on an aircraft is compliant with approved configuration rules by managing and applying:
  - Part Applicability Rules
  - Interchangeability Rules

- Task Based Constraints
- Hardware-Software Compatibility
- Streamline maintenance by applying controls and intelligent automation in supply chain and planning processes to eliminate incorrect parts being delivered to an aircraft
  - Part Demand
  - Part Reservation, Purchase and/or Issue
  - Part Installation
  - IFS Disconnected Operations supports defense organizations in varying levels of planned or unplanned connectivity while operating in a forward environment

## Materials

- Route repairable components throughout the supply chain
- View all work, with integrated (un)scheduled task lists, through a single window
- Access work scopes built directly from component-specific maintenance programs, configurations, and usage records
- Manage internal and external repair options within a single workflow
- Manage the complete purchasing cycle—from request, through authorization, to receiving

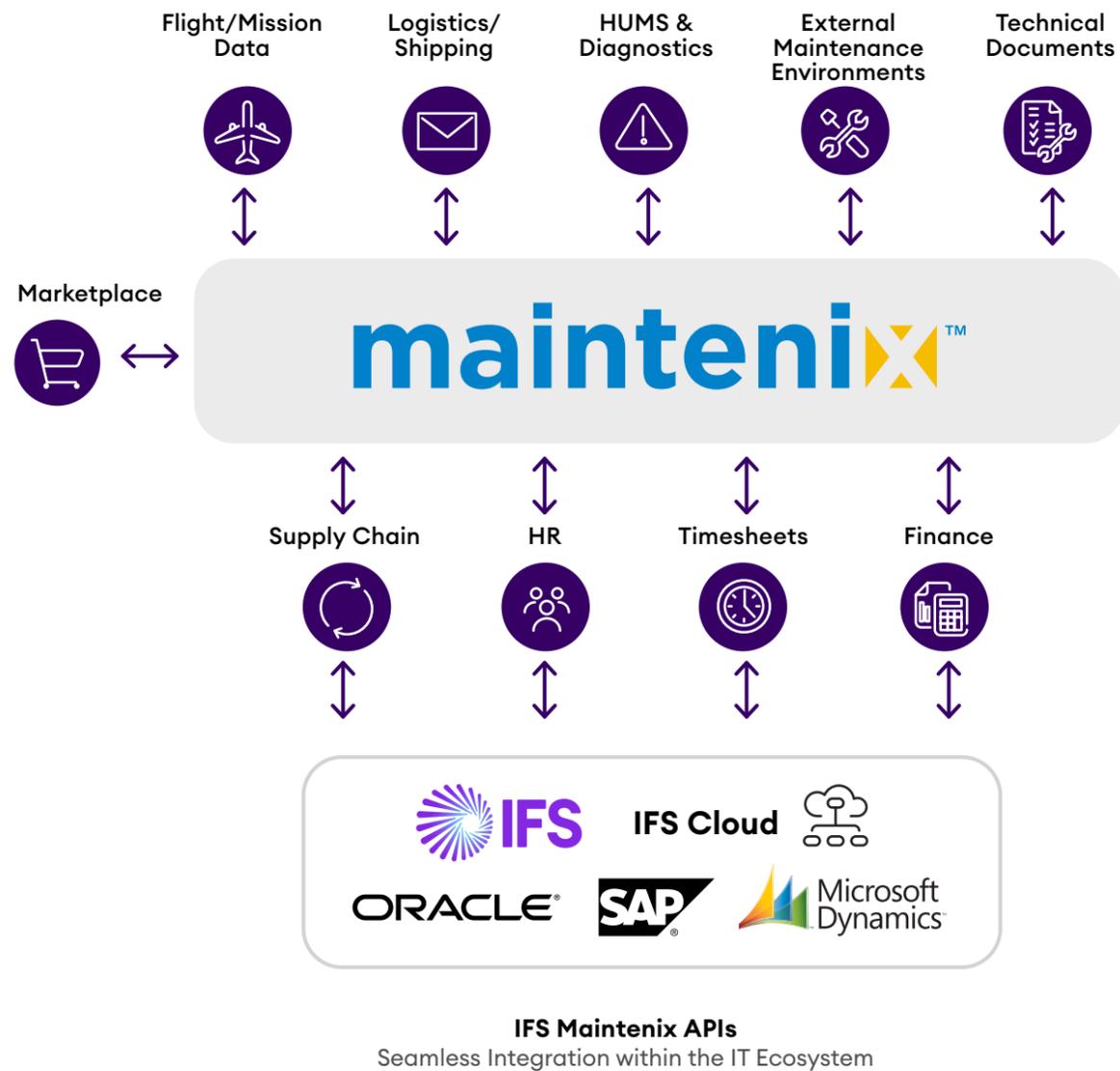
## Procurement

- Manage the complete purchasing cycle—from request, through authorization, to receiving
- Mark purchase order-based invoices for payment
- Ensure accuracy through three-way matching of invoices (comparing purchase order, invoice, and receipt)
- Track and alert against warranty opportunities at the aircraft, component, and task level
- Evaluate warranty contracts and their impact on the overall business

# Supporting your operational landscape

## Connecting with your mission support

No system can work in isolation. In order for IFS Maintainix to support your mission critical aircraft availability, the software utilizes information from—and feeds information in to—your range of support solutions. IFS Maintainix for defense aviation is available with a range of APIs to enable you to integrate the aircraft maintenance management capabilities of IFS Maintainix with your wider IT landscape—regardless of vendor.



## Maintaining information assurance

The collection of information in the defense world by any electronic system is subject to a number of threats. With this at the forefront of our Research & Development, IFS assures that any security vulnerabilities related to its products are identified and resolved.

Governments around the world have defined a number of standards to be met by all providers of services to the military. Operating based on the Federal Information Processing Standards (FIPS) publications, IFS ensures the non-repudiation and authenticity of all information provided be upheld and that confidentiality or integrity not be compromised. Understanding these objectives allows IFS to provide a level of security and control that enables customers to feel safe with their information.

## Ensuring security in your operations

The security framework used by IFS has been developed through years of experience operating in a global environment, and is based on globally recognized standards for managing application security.

IFS strives to secure all offerings, solutions and information. Through the Product Security Board (PSB), security practices and knowledge are aligned across the company by way of processes that comply with and support the Global Security Policies. The PSB is also responsible for the creation and maintenance of Secure Development Lifecycle processes and provides organization-wide expertise with focus on Vulnerability Management, Security Testing, Security Training, Culture and Awareness, Metrics and Maturity, and Product Security Improvements.

## IFS Maintainix—a secure product

IFS software is built with security and compliance in mind and includes regular third-party penetration testing of our networks meaning network and IT security protocols follow industry best practices.

IFS products can be installed on your own secured infrastructure or are available for implementation in a secure cloud environment. IFS has partnered globally with Microsoft to provide IFS solutions on the Azure platform, including on the ITAR-compliant Azure.gov environment within the U.S. Should on-premise installation be desired, IFS supports its clients with installation best practices for secure operation of our products, including supporting the development of Security Technical Implementation Guides (STIG), as required for some programs.

## IFS—a secure supplier

All IFS facilities around the world conform to the corporate security policies. However, to ensure compliance with regional and territorial export laws, some facilities have been enhanced to ensure appropriate handling of defense-related data, for example, the Aerospace and Defense Business Unit headquarters in Ottawa, Canada is a certified NATO and Canadian Controlled Goods Program facility, with multi-level security protocols for the handling of controlled information.



# A global defense aviation customer profile

IFS Maintenix supports a number of the world's leading defense platforms, including fixed and rotary wing aircraft across many different service roles.



For more than 20 years, IFS has delivered value-added business solutions to customers in the Aerospace and Defense (A&D) sector.

Our product development is driven to meet the rigorous demands of rapidly changing requirements and markets, delivering a proven, agile product to keep you ahead. Our focus is to enhance your operational capability so you can manage change, reduce costs and continuously improve customer service, along with your need to balance budgets, profit, and operational performance and effect. The approach needs to optimize complex assets, expensive maintenance, and extended operational life—and do this cheaper, more effectively, making assets quicker to deploy, while also reducing the logistics overhead and footprint.

IFS Maintenix for Defense enables customers to:

### Capitalize on a rich history of innovation and excellence

Our disciplined product roadmap and collaborative product development process enable our customers to leverage industry-leading software that is unmatched in capability by our competitors.

### Keep pace with the future of aviation

IFS Maintenix software is the only product on the market that is designed and proven to handle the complex configuration requirements of defense aviation assets and the reality of evolving business needs.

### Benefit from a strong and vibrant user community

IFS hosts regular Aerospace and Defense user groups and technical workshops, and provides a dedicated customer portal to keep our customers up to date on new technologies, resources and roadmaps.

### Benefit from market-leading innovation and product development

IFS product roadmap and product development processes enable our customers to use industry-leading software that is unmatched by our competitors.

## About IFS

IFS develops and delivers enterprise software for companies around the world who manufacture and distribute goods, build and maintain assets, and manage service-focused operations. Within our single platform, our industry specific products are innately connected to a single data model and use embedded digital innovation so that our customers can be their best when it really matters to their customers—at the Moment of Service.

The industry expertise of our people and of our growing ecosystem, together with a commitment to deliver value at every single step, has made IFS a recognized leader and the most recommended supplier in our sector. Our team of 4,000 employees every day live our values of agility, trustworthiness and collaboration in how we support our 10,000+ customers. Learn more about how our enterprise software solutions can help your business today at [ifs.com](https://www.ifs.com).